DOCUMENT RESUME

ED 139 972

CE 010 993

TITLE

Graphic Communications. Industrial Arts. Performance

Objectives. Junior High School.

INSTITUTION PUB DATE NOTE Duval County School Board, Jacksonville, Fla.

[73] 178p.

EDRS PRICE DESCRIPTORS

MF-\$0.83 HC-\$10.03 Plus Postage.

*Behavioral Objectives; Communications; *Criterion Referenced Tests; Curriculum Guides; *Dr fting; Exceptional Students; *Graphic Arts; Industrial Arts;

Junior High Schools; Secondary Education; Trade and

Industrial Education

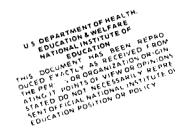
ABSTRACT

Several intermediate performance objectives and corresponding criterion measures are listed for a graphic communications course for seventh, eighth, and minth grade students. The seventh grade section includes eight terminal objectives for a 9-week course and covers the basic fundamentals of photography, bookbinding, and silk screening. The eighth grade section, which is a continuation of the seventh grade activities, includes nine terminal objectives for a 9-week course and covers technical sketching, silk screening, letterpress, and photography. The ninth grade section is divided into four separate one-semester courses: (1) Graphics 1A is a general course and contains 15 terminal objectives, (2) Graphics 1B is an accelerated program for students who are capable of doing more advanced work and contains 15 terminal objectives, (3) Drafting 1A is an introduction of mechanical drafting as a language of industry and contains eight terminal objectives, and (4) Drafting 1B is a sequential study of the areas covered in Drafting 1A for the above average student and contains seven terminal objectives. An industrial arts equipment list is also included. (This manual and 54 others were developed for various secondary level vocational courses using the System Approach for Education (SAFE) guidelines.) (HD)

INDUSTRIAL ARTS

PERFORMANCE OBJECTIVES

GRAPHIC COMMUNICATIONS



THE DUVAL COUNTY SCHOOL BOARD

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Duval County Public Schools



MAKE UP AND USE OF THIS MANUAL

Definitions

<u>Terminal Performance Objectives</u> - are objectives referring to a behavior, knowledge, or skill you want the learner to demonstrate at the end of a particular unit or section. They are written in gross, overall terms.

<u>Intermediate Performance Objectives</u> - are sub-functions of terminal objectives referring to a behavior, knowledge, or skill you want the learner to demonstrate along the way towards mastery of the terminal objectives. They are written in specific terms.

<u>Criterion Measures</u> - are the actual tests of evaluation exactly as it will be presented to the learner to see if he has met the objectives.

Method Media Analysis - specifically refers to personnel resources, tools, vehicles, software, and hardware media - the physical hows for implementing the methods or ways of curriculum implementation. (Each media center is different in the materials available to assist the instructor in lecturing and demonstrating. Therefore, the individual instructor must research the school's media center for the appropriate materials to be used).

Levels of Performance - The levels of performance (how well it must be done) given in this manual have been arrived at by the authors through past experiences and by consultation with other Industrial Arts teachers in Duval County. These levels are subject to change after try out. They are written as average levels of attainment that all students should achieve. This by no means limits the instructor, who can teach as far above the level as possible.

These objectives are minimal - The objectives in this manual represent the basic "need to know" knowledge and skills that should be attainable by any student that meets the prerequisites of the courses.

<u>Courses Prerequisites</u> - The prerequisites for these courses may need revision. For example, if your course calls for a certain skill in reading ability and you are getting students below this ability that cannot perform up to the course standards, then a prerequisite of "must be able to read at the -- level" may be needed.



* ACKNOWLEDGEMENTS *

This manual has been developed following guidelines established by S. A. F. E. (System Approach for Education) training program.

Recognition and appreciation are extended to the following educators who have assisted in the preparation of this manual.

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GEAPHIC COMMUNICATIONS - DRAFTING

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GRAPHIC COMMUNICATIONS

7th GRADE STUDENTS
ACCREDITATION NO. 5831

PROGRAM PATH: EXPLORATORY

PREREQUISITE: 7th GRADE STUDENT

LENGTH OF COURSE: 9 WEEKS

COURSE DESCRIPTION:

An introduction to three processes in Graphic Communications. Basic fundamentals of photography which includes light theory, film, film processing and contact printing. Bookbinding - use of simple bookbinding materials and hot type printing with foil; silk screening, which would include the drawing, cutting, and printing of stencil designs using the tools and equipment of the silk screen printing process.



GRAPHIC COMMUNICATIONS 7th GRADE

- 1.0 Orientation
- 2.0 Safety
- 3.0 Occupations
- 4.0 General History
- 5.0 Measurement and Its Application
- 6.0 Linoleum Block Printing
- 7.0 Photography
- 8.0 Bookbinding

NOTE: This course was designed for a nine (9) week period of study. It will be the individual instructor's decision as to how extensively he covers the materials, depending on his own particular "time allotted" situation. This course was designed to follow a path from fundamental processes to an "in depth" study in sequential order. The instructor should not reverse the order in which The Terminal Performance Objectives are written, but should teach as far into each as time will permit.



COURSE GRAPHIC COMMUNICATIONS 7th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 1.0

ORIENTATION

The learner will, with 80% accuracy, list the classroom responsibilities expected of him. The learner will also demonstrate, orally, his knowledge of the grading procedures used in this course of study.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
1.1	The learner will write and define the responsibilities (listed below) expected of him in the general graphics communications laboratory!	1.1	Write and define five (5) areas of responsibility expected of you as a learner.
1.2	 Punctuality Citizenship Safety Behavior Good Housekeeping The learner will orally recall the following areas to be	1.2	State the four (4) areas to be considered in
	graded in this course of study: 1. Projects 2. Tests 3. Written Work (other than tests) 4. Daily Performance		arriving at a final grade.
(A)			
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1 m 2 m 2 m 2 m 2 m			
			<u>i 1</u>

Terminal Performance Objective

- 1.0

I. P. No.	M/M No	Method / Media Selection
	1	
1.1	1.1.1	
		Chalkboard Demonstration
1.2	1.2.1	Lecture
		Chalkboard Demonstration
		••
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		<u>i 2</u>
		3. Zi

COURSE GRAPHIC COMMUNICATIONS 7th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 2.0

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The learner will write ten (10) of the fifteen (15) General Safety Rules of the graphic communications laboratory, define in writing the term "Safety Consciousness", and will demonstrate his ability to follow the rules of good housekeeping in the laboratory.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
2.1	The learner will list fifteen (15) General Safety Rules of the graphic communications laboratory.	2.1	Write fifteen (15) General Safety Rules from memory.
	1. No horseplay 2. No running in the laboratory 3. Keep your tools clean 4. Keep volatile materials in proper containers 5. Wear proper clothing 6. Keep the floor area clean 7. Wear safety equipment where required 8. Know the fire drill procedures 9. Keep safety guards in place 10. Use the proper tool 11. Get instructor's permission before operating		
	any machinery 12. Know the location and use of all fire extinguishers 13. Report all malfunctions or breakage to the instructor 14. Report any injuries at once 15. Report any unsafe practices at once		
12.2 12.2 13.	The learner will define in writing the term "Safety Consciousness" as "each individual's responsibility to protect himself and others in any and all laboratory situations."	2.2	Define in writing the term "Safety Consciousness".
2:3	The learner will demonstrate, by daily actions, his ability to follow the rules of good housekeeping.	2.3	You will be graded on your willingness and ability to follow the four (4) rules of good housekeeping.
	 Keep tools clean Clean the equipment properly Store all tools properly Clean assigned area 		 Keep tools clean Clean the equipment properly Store all tools properly Clean assigned area
	Marita. Barriana Barriana		_

Terminal Performance Objective - 2.0

I. P. M/M No. No. Method / Media Selection	
2.1 2.1.1 Lecture	
Handout Sheet	•
Film	
	,
2.2 2.2.1 Lecture	
2.3 2.3.1 Lecture	
Demonstration	
Demonswation	n in firm emigra. Prima in a
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COURSE GRAPHIC COMMUNICATIONS 7th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 3.0

OCCUPATIONS	
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The learner will, with 75% proficiency, write a brief description of the graphic communications apprenticeship programs and write fifteen (15) areas of specialization available in the field.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
3.1	The learner will research, using the media center, and write a brief description of how the apprenticeship programs function in the field of graphic communications.	3.1	Research, using the media center, and write a brief description of how the apprenticeship programs function in the field of graphic communications.
3.2	The learner will demonstrate his knowledge of occupational opportunities within the field of graphic communications by listing the following areas of specialization:	3.2	List fifteen (15) occupational areas of specialization available in the field of graphic communications.
	 Photographers Typesetter - Hand Proofreaders Make-up Salesmen Photo - Engravers Electrotyper Pressmen Binders Maintenance Repairmen Compositor Strippers Platemakers Typesetter - Machine 		
	Act Typesever Waterille		
		15	7

I. P. No.	M/M No.	Method / Media Selection
3.1	3.1.1	Research Media Center
		Communicate with unions and business agents
		Lecture
3.2	3.2.1	Lecture
	·	Research Media Center.
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COURSE GRAPHIC COMMUNICATIONS

7th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 4.0

GENERAL HISTORY

With 75% accuracy, the learner will recall in writing, a brief history of printing methods, printing papers, and inks. He will demonstrate, in writing, his understanding of the basic principles of photography.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO	. CRITERION MEA	SURES	*******
4.1	The learner will, in writing, define these three (3) ancient means of graphically communicating: 1. cuneiform - wedge shaped letters 2. hieroglyphics- picture writing 3. alphabet - phonetic characters The learner will, in writing, research the early history of book printing.	4.1	written communica and media center. 1. cuneiform 2. hieroglyphi 3. alphabet Using the media cen	the ancient means of tion using your text cs ter and your text book, 1 (200) word history of scroll writing to folded-	dinies.
4.8	The learner will, by written examination, identify the following three (3) types of ancient materials used prior to paper:	4.3	Identify each by ma	tching:	*
	 Papyrus - writing material made from fibers Parchment - writing material made from skins 		Papyrus	1. fine t grade of parchment paper	
	of sheep and goats 3. Vellum - finest grade of parchment paper		Vellum	writing material made from fiberswriting materials	
4.4	Given two (2) lists, one of famous printers and one of	4.4	Match the following:	made from skins of sheep and goats	
	their accomplishments, the learner will match the two (2) lists.	1.1	Mergenthaler	started publication known as the Penn-	٠,
			Ben Franklin	sylvania Gazette. 2. invented Móveable	
			J. Guttenberg	type . 3. invented Linotype	
Section 1	v * 122* 		ŷ.	machine	
		; ry		9)

COURSE GRAPHIC COMMUNICATIONS 7th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 4.0. cont'd.

GENERAL HISTORY

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES	
		4.4	Stephen Daye 4. set up first press in U. S. A. at Harvard.	
4.5	The learner will, in writing, identify the three (3) major ingredients of ink.	4.5	Match the following ink ingredients to their definition:	
	 pigment - coloring vehicle - body drier - catalyst 		pigment 1. body vehicle 2. catalyst drier 3. coloring	,
4.6	The learner will list, in order, the fundamental processes involved in taking and developing a photograph.	4.6	Using your text, list in order the fundamental processes of picture taking and developing.	
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	 (a) load camera (b) expose film (c) develop film (d) print picture 			
	(d) print protein			
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100 mm m				
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Terminal Performance Objective - 4.0

		A/M	, ab.,	
N	N	<u> </u>	Method / Media Selection	
4.1	4.	1.1	Lecture	
5 ³ - 2 1		1	Research Media Center	
			Handout Sheet	
		.	_	
4.2	4.2	- 1	Cext	
		ı	desearch Media Center.	
\$ →		L	ecture'	
4.3	4.3	.1 Le	ecture	
		- 1	esearch Media Center	
	1	- E	tamination Sheet	
	1			
4.4	4.4.	1 Le	cture	
		ı	search Media Center	
of self-		Exa	amination Sheet	
4.5	4.5.1	Lec	ture	
		Tex		
	,	1	mination Sheet	
	(mination Sheet	
4.6	4.6.1	Lect	ure	:
		Text		
		Resea	arch Media Center	
· .				
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1	1		all V	



COURSE GRAPHIC COMMUNICATIONS

7th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 5.0

MEASUREMENT AND ITS APPLICATION

The learner will, with 70% proficiency, demonstrate in writing, the ability to read a twelve (12) inch ruler and to "break down" accurately the fractional divisions of an inch to one-sixteenth (1/16). He will further demonstrate his ability to use these skills by accurately measuring paper stock to standard sizes, as supplied by the instructor.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES	
5.1	The learner will demonstrate in writing his ability to "break down" an inch into fractional divisions as small as one-sixteenth (1/16).	5.1	The learner will draw an enlargement of one inch and indicate one-sixteenth (1/16) graduations by labeling each fractional division.	
	Total Control			· · · · · · · · · · · · · · · · · · ·
5.2	The learner will demonstrate his knowledge of the standard paper sizes by measuring and listing these five (5) sizes:	5.2	List and measure five (5) different standard paper sizes.	
	(a) 8½ x 11 (b) 8½ x 14 (c) 11 x 15 (d) 12 x 18 (e) 17 x 22			
			20 12	

Terminal Performance Objective - 5.0

I. P. No	M/M No.	Method / Media Selection	
5.1	5.1.1		
		Equipment	
5.2	5.2.1	Lecture	
		Tools	
		Materials	
	·		
	*		
	,	e.	
e -			
ı		21	
			13



COURSE GRAPHIC COMMUNICATIONS 7th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 6.0

LINOLEUM BLOCK PRINTING

14

The learner will, with 75% proficiency, demonstrate his comprehension of linoleum block printing by selecting a design, transferring, cutting, and printing linoleum block.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES	
6.1	The learner will select a design to be printed by the linoleum block.	6.1	Submit a design to the instructor to be block printed.	
6.2	The learner will transfer his design to a linoleum block.	6.2	With the equipment issued, transfer your design to the linoleum block.	
6.5	The learner will identify orally the four (4) basic block carving tools.	6.3	Identify, orally, four (4) carving tools exhibited by the instructor.	
	KNIFE CHISEL GOUGE VEINER			The Table and
	Linoloum block carving tools.		•	
6.4	The learner will carve his design on the linoleum using either the intaglio or the relief method.	6.4	Carve your design on the linoleum using the tools supplied by the instructor.	
	a. intaglio - the design is carved below the surface.			
	 b. relief - the background is carved below the surface. 			
	subject.			
			22	

COURSE GRAPHIC COMMUNICATIONS

7th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 6.0 cont'd.

LINOLEUM BLOCK PRINTING

6.6	Using the proof press, make a proof of the block. The proof will be shown to the instructor for the marking of cuts to be corrected. Complete the following: (a) Block printing was first practiced in the century. (b) When a design is cut in intaglio on a
6.6	(a) Block printing was first practiced in the century.
	linoleum block, the provides the background for the design. (c) paper is used to transfer the design to the linoleum. (d) The design appears in on the linoleum. (e) The designs for block printing should be prepared on paper. (f) Hand-carved wood blocks were first used to reproduce is used to make fine line cuts on the linoleum. (h) A is used to secure the block for insuring safety while cutting the linoleum.



Terminal Performance Objective - 6.0

ing to the same	- Is			·				· · · · · · · · · · · · · · · · · · ·	
L.P.	M/M								
No	No.	·	Method	l / Media Selecti	on				
6.1	6.1.1	Existing Designs				·	/		
		Artwork							
		Materials							
6.2	6.2.1	Demonstration							
		Tools	. ,						
		Materials		÷					
		Text							
6.3	6.3.1	Tool Display				/			
		Demonstration				/		-	
6.4	6.4.1	Lecture							
		Demonstration		\$				Z cont tax.	
		Tools							
		Materials							
6.5	6.5.1	Lecture	,						,
		Demonstration							
		Text Equipment		•					
		Material					•		
e e	6.6.1								
6.6	6.6.1	Examination Sheet							
Aur Sun				24					
								16	

COURSE <u>GRAPHIC COMMUNICATIO</u>NS 7th Grade

TERMINAL	PE	RFO	RMA	NCE
OBJECTIV	Æ	NO.	7.0	

PHOTOGRAPHY	
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	COURSE GRAPHI	C COMMUNICATIONS 7th Grade
TERMINAL PERFO	RMANCE	in Grade
	7.0	PHOTOGRAPHY
of photography, (2)	He will, at 75% proficienc	of photography by written examination by, (1) Define the basic fundamentals ra, (3) Load and expose the sheet film, rint of the negative.
D. INTERMEDIATE PERFORMANC	E OBJECTIVES NO	CRITERION MEASURES
7.1 From lectures and demonstrations, by written examination, state his knowing:	the learner will, 7.1 nowledge of the	Complete the following statements: (1) Photography is the act of
 (1) Photography: the act of pon sensitized surfaces by the sensitized surfaces by the surfaces of a simple (a) lens (b) shutter (c) body (d) film holder (3) Film: a transparent cellulor with a light sensitive mater (4) The three (3) chemical soluted development of film and pontant (a) developer (b) shortstop (c) fixer (5) The procedure of developing method. (6) The use of the contact prin (7) The procedure of making contact prin (7) The pr	he action of light. camera are: pid stock coated rial. stions used in the hoto paper are: ng film by the tray ter.	(2) The four (4) basic parts of a simple camera are: (a) (b) (c) (d) (3)

COURSE GRAPHIC COMMUNICATIONS 7th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 7.0 cont'd.

PHOTOGRAPHY

<u>} </u>	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
.2	The learner will construct a pin-hole camera from directions and construction methods given by the instructor.	7.2	Construct a pin-hole camera.
3	The learner will load the camera with film in the darkroom and expose his film to sunlight using his choice of subject.	7.3	Load your film in the camera and expose the film in sunlight on your choice of subject.
4	The learner will develop the sheet film.	7.4	(a) Give the instructor an oral listing of the procedures for developing film in the darkroom.
			(b) Develop the film. Using a contact printer, expose the photo paper and develop the print.
	Light is reflected from subject to film		
			~

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Terminal Performance Objective - 7.0

	15: 5		
Termi	ial Perfo	ormance Objective - 7.0	
	T		·
I. P. No	M/M No.	Method / Media Selection	
7.1	7.1.1	Lecture	
		Text	
		Demonstration	
		Tools	
		Materials	
		Examination Sheet	
7.2	7.2.1	Lecture	
		Chalkboard Demonstration	
		Handout Sheet	
		Tools	
		Materials	
7.3	7.3.1	Lecture	
		Demonstration	
		Equipment Materials	
		Waterials	
7.4	7.4.1	Lecture	
		Demonstration	
		Equipment	
.	- 1	Materials	
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COURSE GRAPHIC COMMUNICATIONS 7th Grade

TERMINAL .	PF	ERFOI	RMAN	ICE
OBJECTIV	E	NO.	8.0	

BOOKBINDIN	\mathbf{G}
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The learner, with 75% proficiency, will define in writing, two (2) major bookbinding processes. He will also construct a photo album and a small pocket notebook, using the padding process, and gold stamp each. He will be tested, in writing, on tools, materials, and processes.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO	. CRITERION MEASURES
8.1	Given the names and definitions of the two (2) major hand binding processes, the learner will define:	8.1	Define on the examination sheet issued you, the following two (2) terms:
	(a) signature binding(b) loose leaf binding		(a) signature binding (b) loose leaf binding
8.2	The learner will layout, cut, and bind a photo album from the materials and directions given by the instructor.	8.2	Using the materials and layout directions issued by your instructor, cut and bind a photo album.
8.3	The learner will gold stamp letters on the completed album.	8.3	Place desired letters in the holder of the gold stamp machine, pre-heat the letters to the desired temperature, and emboss the letters on the album.
8.4	The learner will construct a small pocket notebook using the padding process. He will emboss the cover by gold stamping.	8.4	Using the layout and materials issued by the instructor, construct and gold stamp the notebook cover.
8.5	The learner will answer questions pertaining to tools, materials, and processes of bookbinding.	8.5	Complete the following statements: 1. Book cloth is used to cover the board. 2 screws hold the album to- gether. 3 compound secures loose paper into a pad. 4 paper is a decorative, heavy
e Barer			paper used to cover the binder's board. 5. A folder removes air bubbles from the cover.
		2	3 ₂₀



COURSE GRAPHIC COMMUNICATIONS

7th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 8.0 cont'd.

BOOKBINDING

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
	The state of the s	INO.	CRITERION MEASURES
			 6 board is a thin cardboard. 7. Type is placed in the holder of the gold stamp machine to upside down. 8. The side of the foil will be placed in the upward position when gold
			stamping.
	29		21

Terminal Performance Objective - 8.0

I, P.	M/M	
No.	No.	Method / Media Selection
8.1	8.1.1	Lecture
		Text
1	İ	Research Media Center
		Examination Sheet
8.2	8.2.1	Lecture
		Chalkboard Demonstration
		Handout Sheet
		Tools
		Materials
8.3	8.3.1	Lecture
		Demonstration
		Equipment
		Materials
8.4	8.4.1	Lecture
		Demonstration
		Handout Sheet
į		Tools
		Materials
o s	0 5 1	Promination Chart
8.5	8.5.1	Examination Sheet
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GRAPHIC COMMUNICATIONS

8th GRADE STUDENTS

ACCREDITATION NO. 5832

PROGRAM PATH: CAREER EDUCATION, EXPLORATORY, PRE-COLLEGE

PREREQUISITE(S): 8th GRADE STUDENT

LENGTH OF COURSE: 9 WEEKS

COURSE DESCRIPTION:

An introduction to four (4) processes in graphic arts communications:

Technical Sketching, Silk Screening, Letterpress and Photography. This course offers a continuation of the seventh (7th) grade activities stressing more complex procedures in these areas.



GRAPHIC COMMUNICATIONS 8th GRADE

- 1.0 Orientation
- 2.0 Safety

- 3.0 Occupations
- 4.0 History
- 5.0 Technical Sketching
- 6.0 Silk Screening
- 7.0 Paper and Inks
- 8.0 Letterpress
- 9.0 Photography

NOTE: This course was designed for a nine (9) week period of study. It will be the individual instructor's decision as to how extensively he covers the materials, depending on his own particular "time allotted" situation. This course was designed to follow a path from fundamental processes to an "in depth" study in sequential order. The instructor should not reverse the order in which The Terminal Performance Objectives are written, but should teach as far into each as time will permit.



COURSE GRAPHIC COMMUNICATIONS

8th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 1.0

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The learner will, with 90% proficiency, list the responsibilities and conduct expected of him, orally recall the grading procedures, and list the areas to be covered in this graphics course.

Age			
NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
	The learner will write a paragraph listing the responsibilities and conduct expected of him in the graphics laboratory. This paragraph will include 90% of the items as previously given by the instructor.	1.1	Write a paragraph listing the responsibilities and conduct expected of you while in the graphics laboratory.
	 A. Conduct No horseplay Take care of all equipment Use the correct tools Be a good housekeeper Observe all safety rules B. Areas Safety Occupations History 		
	 4. Technical Sketching 5. Stencil Silk Screening 6. Paper and Inks 7. Letterpress 8. Photography 		
1.2	The learner will orally recall the following areas to be graded in this course of study.	1.2	State the four (4) areas to be considered in arriving at a final grade.
	 Projects Tests Written work (other than tests) Daily performance 		
	The state of the s		
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Terminal Performance Objective - 1.0

I. P. No	M/M No.	Method / Media Selection
1.1	1.1.1	Lecture
		Chalkboard Demonstration
		Handout Sheet
1.2	1.2.1	Lecture
		Handout Sheet
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COURSE GRAPHIC COMMUNICATIONS 8th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 2.0

S	À	F	E	Т	Y

The learner will write ten (10) of the fifteen (15) General Safety Rules of the graphic communications laboratory, define in writing the term "Safety Consciousness", and will demonstrate his ability to follow the rules of good housekeeping in the laboratory.

⊬NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
2.1	The learner will list ten (10) of the fifteen (15) General Safety Rules of the graphics communication laboratory.	2.1	Write fifteen (15) General Safety Rules from memory.
	 No horseplay No running in the laboratory Keep your tools clean Keep volatile materials in proper containers Wear proper clothing Keep the floor area clean Wear safety equipment where required Know the fire drill procedures Keep safety guards in place Use the proper tool Get instructor's permission before operating any machinery Know the location and use of all fire extinguishers Report all malfunctions or breakage to the instructor Report any injuries at once 		
2.2	15. Report any unsafe practices at once The learner will define in writing the term "Safety Consciousness" as "each individual's responsibility to protect himself and others in any and all laboratory situations."	2.2	Define in writing the term "Safety Consciousness".
2.3	The learner will demonstrate, by daily actions, his ability to follow the rules of good housekeeping. 1. Keep tools clean 2. Clean the equipment properly 3. Store all tools properly 4. Clean assigned area	2.3	You will be graded on your willingness and ability to follow the four (4) rules of good housekeeping. 1. Keep tools clean 2. Clean the equipment properly 3. Store all tools properly 4. Clean assigned area
	35		27



Terminal Performance Objective - 2.0

I. P.		Method / Media Selection	
2.1	2.1.1		
		Handout Sheet	
2.2	2.2.1	Lecture	
2.3	2.3.1	Lecture	
		Demonstration	
		Tools	4
		677	
		36	
			28



COURSE GRAPHIC COMMUNICATIONS 8th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 3.0

OCCUPATIONS

With 75% proficiency, the learner will in writing, list the occupational opportunities available in the specific areas to be studied at this grade level.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
8.1	The learner will list eight (8) occupations or apprentice programs available in the field offered in this study period. 1. Compositor 2. Layout man	3.1	Through individual research, write eight (8) opportunities for employment available in the graphic arts area you will be studying.
のできない。 を を を を を を を を を を を を を	3. Proofreader 4. Linotype- Intertype operator 5. Monotype operator 6. Pressmen 7. Stereotyper 8. Photoengraver		
3.2	The learner will research a field of particular interest and write at least a two-hundred (200) word composition in that area relating to the program offered.	3.2	Using textbooks and the school media center, you will write a composition of at least two-hundred (200) words, listing the qualifications and advantages offered by serving in a chosen area.
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Terminal Performance Objective 3.0

I. P.		Method / Media Selection	ī
3.1	3.1.1		
3.1	3.1.1		
		Media Center	
	,	Text	
3.2	3.2.1	Text	
		Media Center	
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		38	
			20
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COURSE GRAPHIC COMMUNICATIONS

8th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 4.0

GENERAL MISTORY

With 75% accuracy, the learner will recall in writing, a brief history of printing methods, printing papers, and inks. He will demonstrate, in writing, his understanding of the basic principles of photography.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASUR	ES
4.1	The learner will, in writing, define these three (3) ancient means of graphically communicating: 1. cuneiform - wedge shaped letters 2. hieroglyphics - picture writing 3. alphabet - phonetic characters	4.1	Define three (3) of the arwritten communication to and media center. 1. cuneiform 2. hieroglyphics 3. alphabet	ncient means of Ising your text
4.2	The learner will, in writing, research the early history of book printing.	4.2	Using the media center as write a two-hundred (200 book printing from scroll bound books.)) word history of
4.3	The learner will, by written examination, identify the following three (3) types of ancient materials used prior to paper:	4.3	Identify each by matchin	g:
	1. Papyrus - writing material made from fibers		Papyrus	finest grade of parchment paper
	2. Parchment - writing material made from skins of sheep and goats		Parchment	2. writing material made from fibers
	3. Vellum - finest grade of parchment		Vellum	3. writing materials made from skins of sheep and goats
4.4	Given two (2) lists, one of famous printers and one of their accomplishments, the learner will match the two	4.4	Match the following:	
	(2) lists.		Mergenthaler	 started publication known as the Penn- sylvania Gazette.
			Ben Franklin	2. invented Moveable type
	rs. sur		J. Guttenberg	3. invented Linotype machine
	•	39		31

COURSE GRAPHIC COMMUNICATIONS 8th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 4.0 cont'd.

GENERAL HISTORY

47.51		_	
NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO	CRITERION MEASURES
		4.4	Stephen Daye 4. set up first press in U. S. A. at Harvard.
4.5	The learner will, in writing, identify the three (3) major ingredients of ink.	4.5	Match the following ink ingredients to their definition:
	 pigment - coloring vehicle - body drier - catalyst 		pigment
4.6	The learner will list, in order, the fundamental processes involved in taking and developing a photograph.	4.6	Using your text, list in order the fundamental process of picture taking and developing.
	(a) load camera(b) take picture(c) develop film(d) print picture		
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Terminal Performance Objective - 4.0

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1. P.	The second of the second				
No.	No_		Method / Media Selection		
4.1	4.1.1	Lecture			
	•.	Text	•	,	
Service Control of the Control of th		Media Center		<i>;</i> •	
		Handout Sheet			
4.2	4.2.1	Lecture			
		Text	• .		
	1	Media Center		•	
4.3	4.3.1	Lecture			
100 mg/m		Text			
		Media Center			
Signatura de la compania del compania de la compania del compania de la compania del		Examination Sheet			
4.4	4.4.1	Lecture			
		Text		·	
and the state of t		Media Center			, =
		Examination Sheet			
4.5	4.5.1	Lecture			
		Media Center			
\$		Text			
		Examination Sheet	,	•	
4.6	4.6.1	Lecture	4.1		•.
Carlon Ca		Text	41		
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COURSE GRAPHIC COMMUNICATIONS 8th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 5.0

TECHNICAL SKETCHING

34

The learner will demonstrate through performance examination, his ability to utilize the technique of making a drawing without the use of instruments. He will also identify certain drafting tools and occupations that use them. The learner will perform these objectives with 80% accuracy.

			
NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
5.1	The learner will demonstrate on paper, five (5) principles of freehand sketching as given by the instructor.	5.1	On paper, demonstrate the following sketching techniques: 1. Horizontal lines 2. Vertical lines 3. Inclined lines 4. Arcs and Circles 5. Proportions
5.2	Shown pictures or examples of basic drafting tools, the learner will identify them on paper with 80% accuracy.	5.2	1. T-Square 2. Drawing Board 3. Architect's Scale 4. Eraser 5. Erasing Shield 6. Triangles 7. Compass 8. Dividers 9. French Curve (irregular) 10. Drawing pencils
5.3	Identify in writing three (3) drafting occupations from the list provided by the instructor.	5.3	Briefly describe in writing the job responsibilities of the following occupations for Draftsmen: 1. Engineering 2. Architecture 3. Industrial Arts Drafting Instructor
		1	42

Terminal Performance Objective 5.0

Pickers and the second		
I. P		
No.	No.	Method / Media Selection
5.1	5.1.1	Lecture
		Text
		Chalkboard Demonstration
5.2	5.2.1	Visual Aids
		Tools
		Lecture
		- Accounts
5.3	5.3.1	Lecture
		Media Center
		Handout Sheet
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COURSE GRAPHIC COMMUNICATIONS 8th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 6.0

STENCIL SILK SCREENING

36

With 75% proficiency, the learner will demonstrate his ability to design, cut, and print a stencil using the silk screen process.

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No.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES	
6.1	The learner will select a design and cut a stencil from suitable paper.	6.1	Select a design to be approved by the instructor and prepare the stencil.	
6.2	The learner will mask and fasten the stencil to the silk screen frame and prepare the frame for printing.	6.2	Using the materials given you by your instructor, attach the stencil to the frame and prepare for printing.	,
6.3	The learner will ink and print a silk screen stencil.	6.3	Ink and print your stencil on approved medium.	
6.4	The learner will clean and prepare the frame for future use.	6.4	Using the cleaning materials provided, clean and properly prepare the frame.	
6.5	The learner will successfully complete the given test on silk screen materials, tools, and processes.	6.5	Complete the following: 1 printing is a silk screen printing process.	÷ .
			2. A is used to force the ink through the screen.	
	Section of the sectio		3. The most common tool used to cut stencils is a knife.	
			4. A good silk screen ink solvent is	
			5. A new silk covering should bebefore using.	
			6. Six XX silk is a mesh screen.	
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	M Perior	mance Objective - 6.0
I. P. No	M/M No.	Method / Media Selection
6.1	6.1.1	Lecture Existing Pictures Artwork
Ŧ		Tools Materials Text
6.2	6.2.1	Demonstration Text Equipment Materials
6.3	6.3.1	
6.4	6.4.1	Lecture Equipment Material
6.5	6.5.1	Examination Sheet



COURSE GRAPHIC COMMUNICATIONS

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TERMINAL PERFORMANCE OBJECTIVE NO. 7.0

PAPERS AND INKS

With 75% proficiency, the learner will list the materials and processes involved in paper and ink manufacture, and will identify their classification, style, or weight.

(J) 24 · · · · · ·			
NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
7.1	The learner will write the manufacturing processes involved in making finished paper.	7.1	Write the manufacturing process involved in making paper.
	er i vertige en vertiet er		 vegetable fibers matting chemicals water
7.2	The learner will identify eight (8) basic classes of paper used in the graphics laboratory.	7.2	Identify orally to the instructor eight (8) paper samples given you.
	 Newsprint Book papers Writing papers Cardboards Coverstock Onionskin Carbon paper Tympan paper Blotting paper Gummed paper 		
7.3	The learner will list the basic ingredients of inks and briefly describe the ink manufacturing process. 1. vehicle 2. driers 3. pigment	7.3	Write a short paragraph on the manufacturing process of ink and list the basic ingredients using your text book as a guide.
7.4	The learner will visually identify three (3) different types of ink. 1. Letter press 2. Drawing ink 3. Silk screen	7.4	Visually identify three (3) different inks used in the laboratory.
27 27 27 24			46

COURSE GRAPHIC COMMUNICATIONS 8th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 7.0 cont'd.

PAPERS AND INKS

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NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
7.5	The learner will successfully complete the given examination on paper and ink ingredients and manufacturing processes.	7.5	1) Paper was first manufactured in
	•		The continuous process of paper manufacturing was developed in
A CONTROL OF THE CONT			3) The three (3) basic ingredients of paper are, and,
			4) A paper making is a frame covered with copper screen.
			5) Five of the most common kinds of paper used by print shops are:
	· ·		1 2 3 4 5
	·		6) The basic size of bond paper is
を表現できません。 のでは、 では、 では、 では、 では、 では、 では、 では、	• ,		7) Define the following ink terms: (a) pigment (b) vehicle (c) drier
			8) Define absorption and evaporation in ink drying.
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Terminal Performance Objective

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I. P.	M/M	
No.	No.	Method / Media Selection
7.1	7.1.1	Lecture
		Media Center
		Handout Sheet
		riandout Sneet
7.2	7.2.1	Lecture
		Samples
7.3	7.3.1	Lecture
		Text
		Media Center
7.4	7.4.1	Lecture
		Samples
7.5	7.5.1	Examination Sheet
	1.0.1	Painmation Sileet
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COURSE GRAPHIC COMMUNICATIONS 8th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 8.0

LETTERPRESS PRINTING

41

The learner, with 75% accuracy, will identify by writing and by performance, the operational processes, hand tools, and equipment used in the operation of the pilot press. He will show by written examination, the placement of type characters in the California Job Case and utilize this knowledge in practical application.

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NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	. CRITERION MEASURES
8.1	The learner will identify, in writing, these twelve (12) basic tools and basic items of equipment used in the printing laboratory:	8.1	Identify, in writing, the function of these twelve (12) basic tools and basic items used in the printing laboratory.
	(1) Composing Stick (2) Galley (3) Brayer (4) Line Gauge (5) Quoins (6) Quoin Key (7) Gauge Pins (8) Planer (9) Chase (10) Furniture		ALLE VI
8.2	(11) Reglet (12) Proof Press The learner will identify, in writing, the function of these major parts of the hand platen press.	8.2	Identify and define in writing the functions of each of the main parts of the platen press.
	(1) Platen (2) Hand Operating Lever (3) Ink Disc (4) Bed (5) Delivery Board (6) Feed Board (7) Grippers (8) Top Chase Clamp		 (1) Platen (2) Hand Operating Lever (3) Ink Disc (4) Bed (5) Delivery Board (6) Feed Board (7) Grippers (8) Top Chase Clamp

COURSE <u>GRAPHIC COMMUNICATIONS</u> 8th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 80 cont'd.

LETTERPRESS PRINTING

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NO.	INTERMEDIATE PERFORMANCE OBJECTIVE	s NO.	CRITERION MEASURES
8.8	The learner, given a layout of the California Job Ca will indicate in writing, the placement of the variou characters.	se, 8.3	Write the correct character in each com- partment on a blank layout sheet of the California Job Case.
	fil fi i i i k e i 2 3 4 5 6 7 8 \$	E F G M N O T V W	
	Lay of California Job Case		
8.4	The learner will list in writing four (4) kinds of moveable type.	8.4	List in writing, the four (4) kinds of moveable type.
	(1) Foundry Type(2) Mono Type(3) Wood Type(4) Brass Type		
8.5	The learner will identify, in writing, the parts of a piece of type. Beard Height to Paper .918 in.		Given an illustration of a piece of type, identify in writing each part.
	Feet Groove Nick		50

COURSE GRAPHIC COMMUNICATIONS 8th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 8.0 cont'd.

LETTERPRESS PRINTING

Given an examination on moveable type and the pilot press, the learner will correctly answer, in writing, the fellowing test questions: (1) Of what use is a gauge pin? (2) Where do you apply the ink to a pilot press? (4) On what side of the California Job Case are the capitals located? (5) For what kind of printing is brass type used? (6) How is a type character measured? (7) What use are the grippers? (8) What is the use of tympan paper in letterpress printing? (9) Strip spacing material less than six (6) points thick is called a (10) Strip spacing material more than six (6) points thick is called a (11) Which is the larger type - fourteen (14) or eighteen (18) points? (12) Define the printing tenn "furniture".	NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
(1) Of what use is a gauge pin? (2) Where do you apply the ink to a pilot press? (2) What is a good solvent for cleaning the press? (4) On what side of the California Job Case are the capitals located? (5) For what kind of printing is brass type used? (6) How is a type character measured? (7) What use are the grippers? (8) What is the use of tympan paper in letterpress printing? (9) Strip spacing material less than six (6) points thick is called a (10) Strip spacing material more than six (6) points thick is called a (11) Which is the larger type - fourteen (14) or eighteen (18) points?	86	press, the learner will correctly answer, in writing, the	8.6	Answer, in writing, the following test questions:
press? (2) What is a good solvent for cleaning the press? (4) On what side of the California Job Case are the capitals located? (5) For what kind of printing is brass type used? (6) How is a type character measured? (7) What use are the grippers? (8) What is the use of tympan paper in letterpress printing? (9) Strip spacing material less than six (6) points thick is called a (10) Strip spacing material more than six (6) points thick is called a (11) Which is the larger type - fourteen (14) or eighteen (18) points?				(1) Of what use is a gauge pin?
(4) On what side of the California Job Case are the capitals located? (5) For what kind of printing is brass type used? (6) How is a type character measured? (7) What use are the grippers? (8) What is the use of tympan paper in letterpress printing? (9) Strip spacing material less than six (6) points thick is called a (10) Strip spacing material more than six (6) points thick is called a (11) Which is the larger type - fourteen (14) or eighteen (18) points?		entre de la companya		
Case are the capitals located? (5) For what kind of printing is brass type used? (6) How is a type character measured? (7) What use are the grippers? (8) What is the use of tympan paper in letterpress printing? (9) Strip spacing material less than six (6) points thick is called a (10) Strip spacing material more than six (6) points thick is called a (11) Which is the larger type - fourteen (14) or eighteen (18) points?				
used? (6) How is a type character measured? (7) What use are the grippers? (8) What is the use of tympan paper in letterpress printing? (9) Strip spacing material less than six (6) points thick is called a (10) Strip spacing material more than six (6) points thick is called a (11) Which is the larger type - fourteen (14) or eighteen (18) points?				
(7) What use are the grippers? (8) What is the use of tympan paper in letterpress printing? (9) Strip spacing material less than six (6) points thick is called a (10) Strip spacing material more than six (6) points thick is called a (11) Which is the larger type - fourteen (14) or eighteen (18) points?		· ·		(5) For what kind of printing is brass type used?
(8) What is the use of tympan paper in letterpress printing? (9) Strip spacing material less than six (6) points thick is called a (10) Strip spacing material more than six (6) points thick is called a (11) Which is the larger type - fourteen (14) or eighteen (18) points?				(6) How is a type character measured?
letterpress printing? (9) Strip spacing material less than six (6) points thick is called a (10) Strip spacing material more than six (6) points thick is called a (11) Which is the larger type - fourteen (14) or eighteen (18) points?				(7) What use are the grippers?
points thick is called a (10) Strip spacing material more than six (6) points thick is called a (11) Which is the larger type - fourteen (14) or eighteen (18) points?				(8) What is the use of tympan paper in letterpress printing?
points thick is called a (11) Which is the larger type - fourteen (14) or eighteen (18) points?				(9) Strip spacing material less than six (6) points thick is called a
or eighteen (18) points?				(10) Strip spacing material more than six (6) points thick is called a
(12) Define the printing term "furniture".			. 0	(11) Which is the larger type - fourteen (14) or eighteen (18) points?
				(12) Define the printing tenn "furniture".
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COURSE GRAPHIC COMMUNICATIONS 8th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 8.0 cont'd.

LETTERPRESS PRINTING

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	IN ERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
\$ 8.	The learner will hand set type, using a composing stick and characters from the California Job Case.	8.7	Using a composing stick, characters from the California Job Case, and the correct spacing material, properly set up a job assigned by your instructor.
8.8	The learner will pull a proof using the brayer and proof press. The learner will correct any mistakes after checking the proof.	8.8	With the approved type in the composing stick, pull a proof using the brayer and proof press. Make any corrections needed after checking the proof.
8.9	The learner will lock the type in a chase, ink the disc, set the gauge pins and run a finished job.	8.9	Using the instructor's approved assignments, lock the type in the chase. Ink the press, place the lock-up on the bed of the press, and make an impression on the tympan paper. Set the gauge pins for the desired stock to be printed.
8:10	The learner will properly clean the pilot press and correctly distribute the type characters back into the California Job Case.	8.10	Clean the pilot press with the cleaning materials issued and correctly distribute the type in the job case.
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- 8.0

Terminal Performance Objective

I, P. No.	M/M No	Method / Media Selection
8.1	8.1.1	•
		Text
		Tools
		Handout Sheet
8.2	8.2.1	Lecture
	,	Text
		Demonstration
		Handout Sheet
8.3	8.3.1	Text
		Handout Sheet
8.4	8.4.1	Lecture
0.4	0.4.1	Text
		· · · · · · · · · · · · · · · · · · ·
8.5	8.5.1	Lecture
-		Handout Sheet
8.6	8.6.1	Examination Sheet
8.7	8.7.1	Demonstration
		Text
		Equipment
		53



Terminal Performance Objective - 8.0 cont'd

I. P. No	M/M No.	Method / Media Selection	
8.8	8.8.1	Demonstration	
		Text	
di en en en an en		Equipment	
		Materials	
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8.9	8.9.1	Demonstration	
		Equipment	
		Material	
8.10	8.10.1	Demonstration	
0.20		Equipment	
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COURSE GRAPHIC COMMUNICATIONS

8th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 9.0

PHOTOGRAPHY

The learner, with 75% proficiency, will in writing, demonstrate his knowledge of photography fundamentals, including tools, materials, and processes. The learner will also expose and develop a roll and make contact prints from the negative.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	. CRITERION MEASURES
9.1	The learner will demonstrate his knowledge of photography fundamentals on a written examination which will include the following:	9.1	Define, using brief written statements, the following photography terminologies and/or processes:
· · .	(1) Definition of photography		(1) Define photography
 	(2) The parts of a simple camera(a) shutter(b) lens		(2) List four (4) parts of a simple camera.
	(c) body (d) film holder		(3) Name three (3) common black and white roll films.
	(3) The common B & W film, such as: (a) Verichrome (b) Plus X		(4) How should one adjust the camera for deep shaded areas?
	(c) Tri - X (4) The adjustment for different outdoor lighting.		(5) What are three (3) chemical solutions used in development of film and prints?
	 (5) The three (3) chemical solutions used in the development of film and prints which are: (a) developer (b) shortstop 		(6) Outline in brief sentences the procedure for developing film by the tank method.
	(c) fixer		(7) Outline in brief sentences the pro- cedure in making contact prints.
	(6) The procedures of developing roll film(7) The procedure for making contact prints		(8) Name two grades of printing papers and explain the difference between
	(8) The use of contrast paper in photographic printing.		the two.
9.2	The learner will expose a roll of film outdoors under the following conditions:	9.2	Expose a roll of film outdoors under the following conditions:
	A - very bright B - normal C - deep shade		A - very bright B - normal C - deep shade
In the second			55 47

COURSE GRAPHIC COMMUNICATIONS 8th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 9.0 cont'd.

PHOTOGRAPHY

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
9.3	The learner will develop an exposed roll of film using normal time, temperature, and developers.	9.3	Develop a roll of exposed film using standard procedures given by your instructor.
9.4	The learner will make contact prints using two (2) or more different grades of paper.	9.4	Make several contact prints as directed by the instructor.
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Terminal Performance Objective - 9.0

I. P.	M/M No.	Method / Media Selection	
9.1	9.1.1		
		Text	
		Media Center	
		Demonstration	
		Tools	
		Materials	
}		Examination Sheet	
9.2	9.2.1		
		Tools	
		Material .	
		Media Center	
9.3	9.3.1	Lecture	
r		Demonstration	
		Equipment	
		Material	
		Text	
		Media Center	
9.4	9.4.1	Lecture	
"	0,1,1	Media Center	
		Demonstration	
		Equipment 57 Materials	
*** ** * ***		Materials 49	
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GRAPHICS IA

9th GRADE STUDENTS
ACCREDITATION NO. 5833A

PROGRAM PATH: EXPLORATORY

PREREQUISITE(S): GRAPHICS 7 OR 8

LENGTH OF COURSE: 1 SEMESTER

COURSE DESCRIPTION:

A general course in graphic communications consisting of approximately six weeks each of Printing, Silk Screening, and Photography. Printing activities include type setting, proof reading, hand letter press operation and stapling. Silk Screening is a continuation of the activities of the eight grade silk screening program with more advanced processes and techniques in multicolored printing. Photography is to give the student sufficient study and varied practical experience in common procedures of the proper use of cameras, photography materials, and other dark room equipment.



GRAPHIC COMMUNICATIONS IA 9th GRADE

- 1.0 Orientation
- 2.0 Safety
- 3.0 Occupational Opportunities
- 4.0 Printing Tools and Equipment
- 5.0 Moveable Type
- 6.0 Space Composition
- 7.0 Hand Setting Type
- 8.0 Proofing and Lock-up
- 9.0 Operation of Hand-Operated Platen Press
- 10.0 Photography
- 11.0 Principles of Lithography
- 12.0 Offset Plate Making
- 13.0 Offset Press Operation
- 14.0 Silk Screening
- 15.0 Rubber Stamping



COURSE GRAPHIC COMMUNICATIONS IA 9th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 1.0

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The learner will, with 80% accuracy, list the classroom responsibilities expected of him. The learner will also demonstrate, orally, his knowledge of the grading procedures used in this course of study.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
1.1	The learner will write and define the responsibilities (listed below) expected of him in the general graphics communications laboratory:	1.1	Write and define five (5) areas of responsibility expected of you as a learner.
	 Punctuality Citizenship Safety Behavior Good Housekeeping 		
1.2	The learner will orally recall the following areas to be graded in this course of study:	1.2	State the four (4) areas to be considered in arriving at a final grade.
	 Projects Tests Written Work (other than tests) Daily Performance 		
	·		
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Terminal Performance Objective - 1.0

I. P.	M/M	Made at 1 Madia Calanti
No.	No.	Method / Media Selection
1.1	1.1.1	
		Instruction Sheet
1.2	1,,,	
1.2	1.2.1	· ·
		Chalkboard Demonstration
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COURSE GRAPHIC COMMUNICATIONS IA 9th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 2.0

GENERAL SAFETY

The learner will, with 90% plus proficiency, write his understanding of the General Safety Rules of the graphics communications laboratory. He will demonstrate his ability to follow the rules of good housekeeping in the laboratory.

NO	INTERMEDIATE PERFORMANCE OF THE		
711	. INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
2.1	The learner will list the General Safety Rules given by the instructor.	2.1	Write the General Safety Rules given by the instructor.
	 The instructor will approve all work to be accomplished. Use common sense. Horseplay is forbidden. Read safety signs. Secure all long hair and loose clothing. No tools or materials placed in the mouth. Wipe up all spilled solutions. All accidents shall be reported immediately to the instructor. Place dirty and used rags in the appropriate containers. Do not talk to the operator of a machine. Report any unsafe situations or machines. Wear safety glasses when appropriate. Do not experiment or use tools and equipment without proper instruction. Never use the large paper cutter without the instructor's permission. Check the lock mechanism after each cut. Always use the proper tpp?s and equipment. Know the location and use of all fire extinguishers. Know the fire drill rules and regulations. 		
2.2	The learner will, by daily actions, perform the rules of good housekeeping. 1. Keep the tools clean. 2. Clean the equipment properly. 3. Store all tools in their proper area. 4. Clean the assigned area.	2.2	Clean your equipment and tools. Place the tools in their proper storage racks and sweep your assigned area.
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Terminal Performance Objective - 2.0

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I. P.		Method / Media Selection
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2.2	2.2.1	Observation By Instructor
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COURSE GRAPHIC COMMUNICATIONS IA 9th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 3.0

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With 75% proficiency, the learner will in writing, list the occupational opportunities available in the specific areas to be studied at this grade level.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO	. CRITERION MEASURES	* See *
3.1	The learner will list eight (8) occupational or apprentice programs available in the field offered in this study period.	3.1	Through individual research, write eight (8) opportunities for employment available in the graphic arts areas you will be studying.)
	 Compositor Layout Man Proofreader Linotype - Intertype operator Monotype - Operator Pressmen Stereotyper Photoengraver 			
3.2	The learner will research a field of particular interest and write at least a two-hundred (200) word composition in that area relating to the program offered.	3.2	Using textbooks and the school media center, you will write a composition of at least two-hundred (200) words, listing the qualifications and advantages offered by serving in a chosen area.	;
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Terminal Performance Objective - 3.0

I. P. No	M/M No.	Method / Media Selection	
3.1	3.1.1		
		Media Center	
		Text	
3.2	3.2.1		
		Media Center	
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COURSE GRAPHIC COMMUNICATIONS IA 9th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 4.0

PRINTING TOOLS AND EQUIPMENT

The learner, with 75% proficiency, will identify and explain in writing, the function of the common hand tools and will orally identify those pieces of equipment located in the graphic communications laboratory.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES	
4.1	The learner, given a list of hand tools and/or equipment unique to the printing trade, will identify and explain in writing the function of each.	4.1	Identify, in writing, the function of each of the following hand tools and/or equipment.	
	 Composing Stick Galley Brayer Line Gauge Quoins Quoin Key Gauge Pin Planer Proof Press Chase Furniture Reglets 		 Composing Stick Galley Brayer Line Gauge Quoin Key Quoins Gauge Pins Planer Proof Press Chase Furniture Reglets 	
4.2	Given pictorial representations of the equipment in the graphic communications laboratory, the learner will orally identify and explain the purpose of each.	4.2	Orally identify and explain the function of each piece of equipment as illustrated on the instruction sheet given you by the instructor	; r.
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Terminal Performance Objective - 4.0

I, P. No.	M/M No			Meth	od / Media	Selection	*	 	
4.1	4.1.1	Instruction	Sheets			••			
4.2	4.2.1	Instruction	Sheets						
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COURSE GRAPHIC COMMUNICATIONS IA 9th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 5.0

MOVEABLE TYPE

The learner will, with 75% proficiency on a written examination, demonstrate his knowledge of the parts of moveable type and how type is measured, purchased, and classified. The learner will also identify, in writing, various spacing materials and the placement of characters in the California Job Case.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
5.1	The learner, given a drawing illustrating the nomenclature of a piece of type, will identify those parts on a written examination. Beard Face Counter Height to Paper 918 in. Parts of a piece of type	5.1	Given a drawing illustrating the nomenclature of a type character, you will identify in writing, those parts.
5.2	The learner will demonstrate his knowledge of how type is measured on a written examination.	5.2	Complete the following statements by supplying the missing word or words: 1. All type is of an inch high. 2. There are picas to the inch. 3. There are points to the inch. 4. There are points to the pica. 5. There are points to the nonpareil.
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COURSE <u>GRAPHIC COMMUNICATI</u>ONS IA 9th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 5.0 cont'd.

MOVEABLE TYPE

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
63	The learner will, by written examination, demonstrate his knowledge of how foundry type is purchased and classified.	5.3	Complete the following statements by supplying the missing word or words: 1. Foundry type is purchased in assortments or 2. The complete range of sizes of one style of type is known as a 3. A number of series of type, having the same general characteristics of design, and bearing the same name, are said to be of that
5.4	The learner will, on a written examination, identify the various spaces and quads.	5.4	In the blanks provided, indicate the names of the different spaces and quads. Scheme of Foundry Quads and Spaces 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
5.5	The learner will demonstrate his knowledge of strip spacing materials by written examination.	5.5	Complete the following statements: 1. Strip materials that are less than six (6) points in thickness are called 2. Strip materials more than six (6) points in thickness are called

COURSE GRAPHIC COMMUNICATIONS IA 9th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. <u>5.0</u> cont'd.

MOVEABLE TYPE

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
5.6	Given a layout drawing of the California Job Case, the learner will, with 80% accuracy, indicate in writing, the placement of each character.	5.6	Write in the correct characters on the layout of the California Job Case given you by the instructor.
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Terminal Performance Objective - 5.0

Section of the second	I. P. No	M/M No.	Method / Media Selection	
	5.1	5.1.1		
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	5.2	5.2.1	Lecture	
	5,3	5.3.1	Lecture	
	5.4	5.4.1	Textbook	
			Lecture	
	5.5	5.5.1	Textbook	ï
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	5.6	5.6.1	Instruction Sheets	
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COURSE GRAPHIC COMMUNICATIONS IA 9th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 6.0

SPACE COMPOSITION

The learner will correctly answer three (3) questions concerning the use or spaces and quac on a written examination. The learner will also, and with 50% accuracy, list four (4) rules related to the division of the last word of a line into syllables.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO	. CRITERION MEASURES	
	The learner will demonstrate his knowledge of how spaces and quads are used by written examination.	6.1	Indicate, in the spaces provided, the correct sizes and names of the spaces or quads required when setting small type:	
			a. The is used most often to space between words.	
			b. An is used most often to space between sentences.	
			c. The is used most often to begin paragraphs.	
6:2	The learner will list the following four (4) rules concerning the division of the last word of a line into syllables.	6.2	List four (4) rules pertaining to the division of the last word in a line of a paragraph.	
	 The word must be divided correctly between syllables and a hyphen placed after the first section of the word. 		1.	
	A syllable of one letter is never separated from the rest of the word.		2.	
	 Syllables of two or three letters are not commonly separated in wide measure composi- tion. 		3.	
	4. Hyphens are not placed at the ends of a number of consecutive lines.		4.	
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Terminal Performance Objective - 6.0

I. P. <u>No</u>	M/M No	Method / Media Selection	,
6.1	6.1.1		
		Equipment	* 41,
tur A		Handout Sheet	
6.2	6.2.1	Textbook	
		Lecture	
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TERMINAL PERFORMANCE OBJECTIVE NO. 7.0

HAND SETTING TYPE

The learner will demonstrate (orally) the correct use of the composing stick and (by practical exercise) his ability to set type with accuracy of 90%.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
	The learner will, by verbal demonstration to the instructor, prove his ability to correctly use the composing stick. How to Hold Composing Stick	7.1	Demonstrate to the instructor, verbally, the correct methods for using the composing stick.
7.2	The learner will demonstrate his ability to set type by performing a practical exercise as assigned by the instructor.	7.2	You will, given a type setting exercise by the instructor, prove your ability to set a job by correctly using the composing stick, type, and spacing materials used for justification.
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Terminal Performance Objective - 7.0

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	I. P.	1 200	
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I		1	
I	7.1	7.1.1	Textbook
		1	Demonstration
		1	Tools And Equipment
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١	7.2	7.2.1	Instruction Sheets
ı			Tools And Materials
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TERMINAL PERFORMANCE OBJECTIVE NO. 8.0

PROOFING AND LOCK-UP

The learner will, by written examination and/or practical exercise, demonstrate how to handle and tie, proof, clean, correct and lock forms. A proficiency of 80% is expected of the student.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES	
8.1	The learner, having completed a practical type-setting exercise, will demonstrate to the instructor the correct methods used to tie-up a locked form.	8.1	Demonstrate to the instructor the correct methods that should be used to tie-up a previously assigned composition assignment.	
8.2	The learner will, by written examination, name the two (2) following methods for proofing a composition: 1. The planner method.	8.2	Name, in writing, the two most accepted methods for proofing a composition.	
8.8	2. The proof-press method. The learner will, by practical exercise and written exam-	8.3	Having set and tied a composition, you are	
	ination, demonstrate his knowledge of how to clean and correct composition with 90% proficiency.		to submit a revised or final proof to the instructor with the type which has been cleaned. 2. Place a "T" in the blank before each state-	
			ment if the statement is true, or an "F" if the statement is false. 1. Dirty type causes unnecessary work for	r centh
			the composer. 2. Type cleaner should be poured directly onto the set type.	5
		.,, 	3. A cloth, rather than a brush, should be used first to remove ink from the surface of the characters.	
			 4. It is a good idea to never use sharp pointed tweezers to make corrections. 5. A proof having errors is often referred 	· '8
	in the second		to as a "dirty proof".	,
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TERMINAL PERFORMANCE OBJECTIVE NO. 8.0 cont'd.

PROOFING AND LOCK-UP

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
8.4	The learner will, by written examination, be capable of identifying the following tools that are displayed by the instructor:	8.4	Identify, in writing, the following tools and equipment used to impose and lock forms as displayed by the instructor.
	 Chase Imposing Stone Furniture Reglets Quoins Quoin Key Planner Block Galley 		 Chase Imposing Stone Furniture Reglets Quoins Quoin Key Planner Block Galley
8.5	The learner will, with 80% proficiency, write and perform the following procedures for locking-up a form: 1. Place the form in the chase.	8.5	 Having set, tied, proofed and cleaned a form, you are to lock this form and present it to the instructor for approval.
	2. Surround the form with furniture.		2. List the correct procedure steps for locking-up a form.
	3. Fill in with furniture.		
	4. Insert the quoins.		
	5. Remove string and fit the quoins.		
	6. Plane the form.		
	7. Lock the form.		
	8. Test for lift.		
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Terminal Performance Objective - 8.0

I. P. No	M/M No	Method / Media Selection	
8.1	8.1.1	Textbook	
		Demonstration	
		Tools And Equipment	
8.2	8.2.1	Textbook	
8.3]	8.3.1	Instruction Sheets	
8.4	8.4.1	Textbook	
		Instruction Sheets	
8.5	8.5.1	Textbook	
	**	Instruction Sheet	e wer
		Demonstration	
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TERMINAL PERFORMANCE OBJECTIVE NO. 9.0

OPERATION OF THE HAND-OPERATED PLATEN PRESS

The learner will, by written examination and practical exercise, prove his ability to know the different parts of the hand-operated platen press, set up the press for making a clean impression, and properly clean up the press when finished. A proficiency level of 80% is expected of the learner.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
9.1	The learner, given a diagram of the hand-operated plate press, will demonstrate his ability to recall the various parts of the press as instructed by the instructor.	9.1	Write the names of the various parts of the platen press on the diagram given you by the instructor.
9.2		9.2	Demonstrate, by practical application, the correct procedures to follow while inking the hand-operated platen press.
9.8	The learner will demonstrate, by practical exercise and to the instructor, the correct procedures for locking the type form on the bed and adjusting the grippers on the platen press.	9.3	Having locked-up a type form, you will install this form in the hand-operated platen press and adjust the grippers.
9.4	The learner will demonstrate, by practical exercise, the correct procedures for completing a make ready on the hand-operated platen press.	9.4	Do a complete make ready on the hand-operated platen press for the job you have locked-up.
9.5	The learner will make several (number to be determined by the learner and/or the instructor) impressions of the type form and will clean the press properly afterwards.	9.5	 Print several impressions of your lock-up type form and submit to the instructor for his evaluation.
			After printing several impressions of your locked-up type form, clean the press and the type form.
9.6	The learner will distribute the type to its proper storage space.	9.6	Distribute the type to its proper storage place.
Management and the state of the			71
		19	

Terminal Performance Objective - 9.0

I, P.	M/M No	Method / Media Selection	
9.1	9.1.1	Textbook	
		Instruction Sheets	
9.2	9.2.1	Textbook	
		Lecture	
		Tools And Materials	
9.3	9.3.1	Textbook	
9.4	9.4.1	Textbook	•
9.5	9.5.1	Textbook	سيرق مياء ،
9.6	9.6.1	Textbook	
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TERMINAL PERFORMANCE OBJECTIVE NO. 10.0

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The learner will, with 75% proficiency, in writing and practical applicat , express his knowledge of photographic fundamentals, including tools, materials, and processes. The learner will, with a given camera, load and expose a roll of film, process this film, make contact prints of all negatives, and enlarge the best negative.

о.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
1	The learner will demonstrate, by testing, the basic fundamentals of photography, its tools, materials, and	10.1	Briefly answer the following questions:
4	processes.		(A) What is photography?
	en en en en en en en en en en en en en e		(B) How should one utilize outdoor lighting?
	·		(C) What is the purpose of the shutter and the use of variable shutter speeds?
			(D) What is meant bt the ASA number of film?
			(E) What is the purpose of f/stops?
			(F) Describe the different procedures of loading and unloading 35mm film and 1/20 film?
	· · · · · · · · · · · · · · · · · · ·		(G) What procedures are used in developing film by the tank method?
a l			(H) What is contact printing?
			(I) How do you control the amount of light in enlarging negatives?
			(J) What is meant by "test stripping"?
			(K) Is F-1 a low or high contrast paper?
	about?		(L) Is contact paper and enlarging paper the same?
2	The learner will, using the procedures given by the instructor and the camera's manufacturer, load a camera with film.	10.2	Under subdued light, load the camera correctly, using the procedures given by the instructor and manufacturer of the camera.
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TERMINAL PERFORMANCE OBJECTIVE NO. 10.0 cont'd.

PHOTOGRAPHY

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10	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES). 33
0.8	The learner will expose a roll of film using the f/stops and shutter speed recommended by the film's manufacturer under the following conditions.	10.3	Expose the film using the manufacturer's recommended f/stop and shutter speed under the conditions given by the instructor.	
	A. Stationary Subject - normal light B. Moving Subject - normal light C. Landscape Subject - existing light D. Indoor Subject - existing light			
0.4	The learner, with procedures given by the instructor, will develop the roll of exposed film by the tank method.	10.4	Develop the exposed film using the tank method. Procedures of this development will be given by the instructor.	
0. 5	The learner will make contact prints of the negatives using procedures given by the instructor.	10.5	Contact prints will be made of the negatives developed.	
0.8	The learner will make an enlargement of the best negative of the developed roll of film, using test strips of the different grades of enlarging paper utilized in the lab. The learner will choose the best test strip and make the enlargement.	10.6	By instructions given, test strips will be made, utilizing the different grades of enlarging paper, different exposure times, and f/stops. Choose the best test strip and make the enlargement.	
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Terminal Performance Objective

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I. P.	M/M No.	Method / Media Selection
10.1	10.1.1	
10.1	10.1.1	Reference Books
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10.2	10.2.1	Demonstration
		Handout Sheets
		Materials
10.3	10.3.1	Reference Books
10.4	10.4.1	Instrcution Sheets
		Materials
		Equipment
10.5	10.5.1	
		Equipment
		Materials
10.6	10.6.1	Reference Book
		Equipment
		Materials
		83

TERMINAL PERFORMANCE OBJECTIVE NO. 11.0

PRINCIPLES OF LITHOGRAPHY

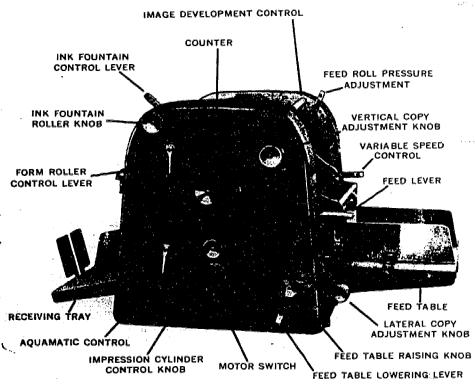
The learner will demonstrate, by written examination, his knowledge of different printing processes and be able to identify the different parts of the offset press. The learner will be expected to achieve a proficiency level of 75%.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES	
11.1	Given three (3) types of printing and definitions of their printing surfaces, the learner will correctly match them.	11.1	Match the two (2) columns below:	
	printing surfaces, the learner will correctly match them.		Letterpress Printing A. flat surfa	ce
			Intaglie Printing B. raise surfa	
	·		Lithography C. depr	essed ce
11.2	The learner will, in writing, define the main principle of	11.2	Complete the following statement:	
	how non-image and image areas are kept separate in the offset printing process.		Offset printing works on the principle that and do not mix.	
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TERMINAL PERFORMANCE OBJECTIVE NO. 11.0 cont'd.

PRINCIPLES OF LITHOGRAPHY

F			
NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
	The learner, given a diagram of the offset press, will identify the various parts of the press in writing.	11.3	Given a diagram of the type of offset machine used in your laboratory, you will identify, in writing, the various parts.
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Terminal Performance Objective - 11.0

I. P.		Method / Media Selection
11.1	ļ	Lecture
11.2	11.2.1	Lecture
11.3	11.3.1	Instruction Sheets
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TERMINAL PERFORMANCE OBJECTIVE NO. 12.0

OFFSET PLATE MAKING

The learner will demonstrate, by written examination, his knowledge of how to prepare presensitized aluminum plates for the offset press and, by practical application, how to prepare direct image (paper) masters for the offset press. A proficiency level of 75% is expected of the learner.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
12.1	The learner will list, in writing, the following procedures for masking-up a job to be exposed to an aluminum plate:	12.1	Write a brief description, in the correct sequence, of how to prepare a masking job to be photographed.
3 - 2	 Make a layout page showing the location of desired margins. 		
is . Ver	Place negatives (face side up) and printed materials onto the layout page.		
	Place masking paper over layout page, and outline area to be removed (cut away).		
	4) Slip a cardboard between the layout page and the masking page. Use a knife to cut away windows ½ larger than areas to be printed.		
	Remove the cardboard and tape printed materials to the masking page.		
]2.2	The learner will, orally, describe to the instructor the correct procedures to be followed when exposing presensitized aluminum plates.	12.2	Describe, orally, the correct procedures to be followed when exposing presensitized aluminum plates.
12.8	The learner will list, in order of sequence, the following chemicals that are used to process presensitized aluminum plates.	12.3	List, in order of sequence, the chemicals that you would use to process a presensitized aluminum plate that has been exposed.
	 Desensitizer Lacquer Process Gum 		
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COURSE GRAPHIC COMMUNICATIONS IA

9th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 12.0 cont'd.

OFFSET PLATE MAKING

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	NO. CRITERION MEASURES			
2.4	The learner, with the instructor's approval, will prepare at least two (2) of the following means of transferring information onto the paper master:	12.4	Prepare a direct image master using at least two of the following means of transferring information onto the paper master:	ų.		
	 Offset ball point pen Rubber stamp Design transfer (carbon paper) Offset drawing fluid Draftsman ruling pen Typewriter 		 Offset ball point pen Rubber stamp Design transfer (carbon paper) Offset drawing fluid Draftsman ruling pen Typewriter 			
			88	٠.		
AA Egyment			80			

Terminal Performance Objective - 12.0

Method / Media Selection	M/M No.	I, P. No.
rence Books	12.1.1	12.1
onstration		
pment And Handout		
ure	2.2.1	12.2
rence Books	1231	123
	2.0.1	12.0
ire		
rence Books	12.4.1	12.4
ire		
And Materials		
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	· ,	
rence Books rence Books rence Books re constration And Materials	12.4.1	12.4

TERMINAL PERFORMANCE OBJECTIVE NO. <u>13.0</u>

OFFSET PRESS OPERATION

The learner will, orally, describe to the instructor the function of the three (3) basic systems of an offset press and how to set up, test, and run copies of a direct image master (ref. 7.4). A proficiency level of 75% is expected of the learner.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
13.1	The learner will, orally, describe the function of each of the following three (3) basic systems of an offset printing press.: 1) Paper Feeding System 2) Moistening System 3) Inking System	13.1	Orally describe to the instructor the function of each of the following basic systems of an offset press.: 1) Paper Feeding System 2) Moistening System 3) Inking System
13.2	In the presence of the instructor, the learner will set up, test, and run copies of the direct image master (ref. 12.4) made previously.	13.2	Orally describe to the instructor the correct procedure for setting up, testing, and running copies of the direct image master (ref. 12.4) made previously.
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			§ 0 82

Terminal Performance Objective - 13.0

	T			_
L. P.	M/M			
No.	No	Method / Media Selection		
13.1	13.1.1	1 Textbook		
		Lecture		
		Decime		
13.2	13.2.1	Demonstration		
		Equipment And Handout		
		Equipment And Handout		
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TERMINAL PERFORMANCE OBJECTIVE NO. 14.0

SILK SCREENING

The learner, at 75% proficiency, will demonstrate his ability to produce a silk screen print by the film method properly using the fundamental processes involved.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO	. CRITERION MEASURES
14.1	The learner will prepare a design, indicating the desired color, for a one color silk screen print.	14.1	Select a design to be silk screen printed and prepare it for printing by drawing it to the desired size. Select the ink color to be used.
14.2	The learner will hand cut the design into the lacquer or water soluble film and remove these areas to be printed.	14.2	Cover the design with the type film used by the instructor. Cut with a stencil knife the areas to be removed from the lacquer film. Remove these areas.
.4.3	The learner will attach the design to the silk and regester the guides.	14.3	Using water or lacquer thinner, as directed by the instructor, adhere the design to the silk being sure to set the register guides.
4.4	The learner will ink the prepared screen, make a finished silk screen print, and clean the screen using the proper cleaning fluid.	14.4	Select the ink color to be used. Place the ink on the screen and force it through the mesh to the desired stock. Clean the screen with materials designated by the instructor.
14.5	Given a written examination, the learner will correctly answer the given questions.	14.5	Answer in writing, the following examination: 1) film is lacquer solvable.
			2) film is water solvable.3) A knife is used for cutting the film.
			4) Film cut too will not adhere correctly.
	4		5) Film is removed only from areas to be
			6) The backing is ready to be peeled when it feels to touch.
			92 . 84

TERMINAL PERFORMANCE OBJECTIVE NO. 14.0 cont'd.

SILK SCREENING

NO.	INTERMEDIATE	PERFORMANCE	OBJECTIVES	NO.	CRIT	ERION MEASURES	
				14.5		Light colored spots before peeling film backing indicate areas not properly	
					8)	The is used to force the in through the screen.	k
					9)	All excess ink left on the screen is discarded?	
,					10)	In cleaning the ink from the screen a solvent such as or may be used.	,
					11)	What is the use of lacquer thinner is cleaning the screen?	'n
•		·			12)	What is meant by 10XX mesh in si	lk?
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Terminal Performance Objective 14.0

I. P. No	M/M No.	Method / Media Selection
14.1	14.1.1	Instruction Sheets
14.2	14.2.1	Textbook
		Demonstration Tools And Materials
14.3	14.3.1	Textbook Demonstration
		Tools And Materials
14.4	14.4.1	Textbook
		Demonstration
		Tools And Materials
14.5	14.5.1	Textbook
		Reference Books
	ī	
		94

TERMINAL PERFORMANCE OBJECTIVE NO. 15.0

RUBBER STAMP MAKING

With 75% proficiency, the learner will demonstrate by performance and written examination, his ability to produce rubber stamps employing the fundamental processes involved.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
15.1	The learner will, orally, identify the basic parts of a rubber stamp hot press. 1) On - Off Switch 2) Chase 3) Compensating Tray 4) Adjustment Wheel 5) Heat Indicator	15.1	Orally identify for the instructor the basic parts of a rubber stamp hot press.
	6) Timer		
15,2	The learner will set the required type, accurately spaced, and lock it into the rubber stamp chase.	15.2	Using the fundamental processes of hand-setting type, set the necessary type for a finished product into a composing stick. Lock this type in the required chase.
15.3	The learner will demonstrate his ability to pre-heat the stamp press and make a satisfactory matrix mold for a rubber stamp.	15.3	With the materials issued by the instructor, (matrix and soapstone), pre-heat the press and stamp a matrix mold.
15,4	The learner will demonstrate his ability to form a matrix mold.	15.4	With the materials issued, make a rubber imprint from the finished matrix mold.
15.5	The learner will demonstrate his ability to attach a finished rubber stamp to the correct size cushion molding.	15.5	With the materials issued, cut the cushion molding to correct size and properly attach the mold for a finished product.
15.6	With 75% proficiency, the learner will answer, in writing, an examination testing his understanding of rubber stamp making.	15.6	 Complete the following sentences: Rubber stamps are into matrix molds. Matrix becomes soft at F. The best type to use for stamp making is type.
	Q	95	87

TERMINAL PERFORMANCE OBJECTIVE NO. 15.0 cont'd.

RUBBER STAMP MAKING

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
		15.6	4) The type form is locked in a 5) furniture is to be used in stamp making. 6) The type form is pre-heated for minutes at F. 7) The matrix is placed with the side against the type. 8) The mold should bake for minutes at F. 9) is used as a parting compound. 10) To test proper vulcanizing, the is pressed into the stamp face.
		96	88

Terminal Performance Objective - 15.0

I. P. No.	M/M No.	Method / Media Selection
15.1	15.1.1	
		Textbook Assignment
15.2	15.2.1	Instruction Sheet
		Demonstration
15.3	15.3.1	Instruction Sheet
		Demonstration
15.4	15.4.1	Instruction Sheet
		Demonstration
15.5	15.5.1	Instruction Sheet
		Demonstration
15.6	15.6.1	Instruction Sheet
		Demonstration '
		Textbook Assignment
, wa		
		97



GRAPHICS IB

ACCREDITATION NO. 5843

LENGTH OF COURSE: 1 SEMESTER

GRADE LEVEL: 9th

PROGRAM PATH: EXPLORATORY

PREREQUISITE: GRAPHIC COMMUNICATIONS IA

COURSE DESCRIPTION:

An accelerated program for students who are capable of doing more advanced work than the average student. The sundent may choose to spend this time in one area of the prerequisite course or all of the areas.



TERMINAL PERFORMANCE OBJECTIVE NO. 1.0

ORIENTATION

The learner will, with 80% accuracy, list the classroom responsibilities expected of him. The learner will also demonstrate, orally, his knowledge of the grading procedures used in this course of study.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO	. CRITERION MEASURES
1.1	The learner will write and define the responsibilities (listed below) expected of him in the general graphics communications laboratory.	1.1	Write and define five (5) areas of responsibility expected of you as a learner.
	 Punctuality Citizenship Safety Behavior Good Housekeeping 		
1.2	The learner will orally recall the following areas to be graded in this course of study: 1. Projects 2. Tests 3. Written Work (other than tests) 4. Daily Performance	1.2	State the four (4) areas to be considered in arriving at a final grade.
			0.1

TERMINAL PERFORMANCE OBJECTIVE NO. 2.0

GENERAL SAFETY

The learner will, with 90% plus proficiency, write his understanding of the General Safety Rules of the graphics communications laboratory. He will lemonstrate his ability to follow the rules of good housekeeping in the laboratory.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
2.1	The learner will list the General Safety Rules given by the instructor.	2.1	Write the General Safety Rules given by the instructor.
	 The instructor will approve all work to be accomplished. Use common sense. Horseplay is forbidden. Read safety signs. Secure all long hair and loose clothing. No tools or materials placed in the mouth. Wipe up all spilled solutions. All accidents shall be reported immediately to the instructor. Place dirty and used rags in the appropriate containers. Do not talk to the operator of a machine. Report any unsafe situations or machines. Wear safety glasses when appropriate. Do not experiment or use tools and equipment without proper instruction. Never use the large paper cutter without the instructor's permission. Check the lock mechanism after each cut. Always use the proper tools and equipment. Know the location and use of all fire extinguishers. Know the fire drill rules and regulations. 		
	The learner will, by daily actions, perform the rules of good housekeeping. 1. Keep the tools clean 2. Clean the equipment properly. 3. Store all tools in their proper area. 4. Clean the assigned area.	2.2	Clean your equipment and tools. Place the tools in their proper storage racks and sweep your assigned area.

Terminal Performance Objective - 1.0

I. P. No.	M/M No.	Method / Media Selection
l.1	1.1.1	Lecture
ļ		Instruction Sheet
1.2	1.2.1	Lecture
		Chalkboard Demonstration
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Terminal Performance Objective - 2.0

I, P,	м/м	Method / Media Selection
No.	No.	method / Media Selection
2.1	2.1.1	Instruction Sheets
2.2	2.2.1	Observation by Instructor
2.2	2.2.1	Observation by instructor
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COURSE GRAPHIC COMMUNICATIONS IB

TERMINAL PERFORMANCE OBJECTIVE NO. 3.0

OCCUPATIONS

With 75% proficiency, the learner will in writing, list the occupational opportunities available in the specific areas to be studied at this grade level.

·	OR IECTIVES	NO.	CRITERION MEASURES
NO.	The learner will list eight (8) occupational or apprentice programs available in the field offered in this study period.		Through individual research, write eight (8) opportunities for employment available in the graphic arts areas you will be studying.
•	1. Compositor 2. Layout Man 3. Proofreader 4. Linotype - Intertype operator 5. Monotype - Operator 6. Pressmen 7. Stereotyper 8. Photoengraver		
3.2	The learner will research a field of particular interest and write at least a two-hundred (200) word composition in that area relating to the program offered.	3.2	Using texteroks and the school media center, you will write a composition of at least two-hundred (200) words, listing the qualifications and advantages offered by serving in a chosen area.
era.	103		

TERMINAL PERFORMANCE OBJECTIVE NO. 4.0

PRINTING TOOLS AND EQUIPMENT

The learner, with 75% proficiency, will identify and explain in writing, the function of the common hand tools and will orally identify those pieces of equipment located in the graphic communications laboratory.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
f .1	The learner, given a list of hand tools and /or equipment unique to the printing trade, will identify and explain in writing the function of each.		Identify, in writing, the function of each of the following hand tools and / or equipment:
	 Composing Stick Galley Brayer Line Gauge Quoins Quoin Key Gauge Pin Planer Proof Press Chase Furniture Reglets 		 Composing Stick Galley Brayer Line Gauge Quoin Key Quoins Gauge Pins Planer Proof Press Chase Furniture Reglets
1.2	Given pictorial representations of the equipment in the graphic communications laboratory, the learner will orally identify and explain the purpose of each.	4.2	Orally identify and explain the function of each piece of equipment as illustrated on the instruction sheet given you by the instructor.
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Terminal Performance Objective - 3.0

I. P. Na.	M/M No.	Method / Media Selection	
3.1	3.1.1		
3.1	3.1.1		
		Media Center	
		Text	
3.2	3.2.1	Text	
		Media Center	-
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Terminal Performance Objective

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,	L, P. No	M/M No	Method / Media Selection
	4.1	4.1.1	
	4.2	4.2.1	Instruction Sheets
			106

TERMINAL PERFORMANCE OBJECTIVE NO. 5.0

MOVEABLE TYPE

The learner will, with 75% proficiency on a written examination, demonstrate his knowledge of the parts of moveable type and how type is measured, purchased, and classified. The learner will also identify, in writing, various spacing materials and the placement of characters in the California Job Case.

NÖ.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES	
5.1	The learner, given a drawing illustrating the nomen- clature of a piece of type, will identify those parts on a written examination.	5.1	Given a drawing illustrating the nomenclate of a type character, you will identify in writhose parts.	ure iting,
	BEARD FACE COUNTER. HOULDER FACE SHOULDER PARTS OF A PIECE OF TYPE			
5.2	The learner will demonstrate his knowledge of how type is measured on a written examination.	5.2	Complete the following statements by supplying the missing word or words: 1. All type is of an inch high. 2. There are picas to an inch. 3. There are points to the inch. 4. There are points to the pica. 5. There are points to the nonpareil.	
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TERMINAL PERFORMANCE OBJECTIVE NO. 5.0 cont'd.

MOVEABLE TYPE

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
5.3	The learner will, by written examination, demonstrate his knowledge of how foundry type is purchased and classified.	5.3	Complete the following statements by supplying the missing, word or words: 1. Foundry type is purchased in assortments or
5.4	The learner will, on a written examination, identify the various spaces and quads.	5.4	In the blanks provided, indicate the names of the different spaces and quads.
5.5	The learner will demonstrate his knowledge of strip spacing materials by written examination.	5.5	Complete the following statements: 1. Strip materials that are less than six (6) points in thickness are called 2. Strip materials that are more than six (6) points in thickness are called
	· 1	08	100

TERMINAL PERFORMANCE OBJECTIVE NO. <u>5.0</u> cont'd.

MOVEABLE TYPE

Given a layout drawing of the California Job Case, the learner will, with 80% accuracy, indicate in writing, the placement of each character.	5.6	Write in the correct characters on the layout of the California Job Case given you by the instructor.	
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,	learner will, with 80% accuracy, indicate in writing, the	learner will, with 80% accuracy, indicate in writing, the	learner will, with 80% accuracy, indicate in writing, the placement of each character. out of the California Job Case given you by the instructor.

Terminal Performance Objective - 5.0

ſ	L.P.	M/M		
L	No.	No.	Method / Media Selection	
	5.1	5.1.1	Instruction Sheets	
	5.2	5.2.1	Lecture	
	5.3	5.3.1	Lecture	
	5.4	5.4.1	Textbook	
			Lecture	
	5.5	5.5.1	Textbook	ř
			Lecture	
	5.6	5.6.1	Instruction Sheets	
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TERMINAL PERFORMANCE OBJECTIVE NO. 6.0

SPACE COMPOSITION

The learner will correctly answer three (3) questions concerning the use or spaces and quads on a written examination. The learner will also, and with 50% accuracy, list four (4) rules related to the division of the last word of a line into syllables.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
3.1	The learner will demonstrate his knowledge of how spaces and quads are used by written examination.	6.1	Indicate, in the spaces provided, the correct sizes, and names of the spaces or quads required when setting small type.
			 a. The is used most often to space between words. b. An is used most often to space between sentences.
	•		c. The is used most often to begin paragraphs.
8.2	The learner will list the following four (4) rules concerning the division of the last word of a line into syllables.	6.2	List four (4) rules pertaining to the division of the last word in a line of a paragraph.
編集 ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・	 The word must be divided correctly between syllables and a hyphen placed after the first section of the word. 		1.
	A syllable of one letter is never separated from the rest of the word.		2.
	 Syllables of two or three letters are not commonly separated in wide measure composi- tion. 		···· 3.
	4. Hyphens are not placed at the ends of a number of consecutive lines.	·	4.
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- 6.0

Terminal Performance Objective

I, P. No.	M/M No		Method / Media Selection	1	
6.1	6.1.1	Lecture			
		Demonstration	•		
		Handout Sheet			
6.2	6.2.1	Textbook			
		Lecture			
		Chalkboard		•	
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TERMINAL PERFORMANCE OBJECTIVE NO. 7.0

HAND SETTING TYPE

The learner will demonstrate (orally) the correct use of the composing stick and (by practical exercise) his ability to set type with accuracy of 90%.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES	
	The learner will, by verbal demonstration to the instructor, prove his ability to correctly use the composing stick.	7.1	Demonstrate to the instructor, verbally, the correct methods for using the composing stick.	
7.2	The learner will demonstrate his ability to set type by performing a practical exercise as assigned by the instructor.	7.2	You will, given a type setting exercise by the instructor, prove your ability to set a job by correctly using the composing stick, type, and	1 T 2000
	•		spacing materials used for justification.	
			1 1 3	

Terminal Performance Objective 7.0

I. P. No	M/M No.		Method / Media Se	lection	···		
7.1	7.1.1	Textbook					
rst.	:	Demonstration		trophy dopological			
		Tools and Equipment					٠.
7.2	7.2.1	Instruction Sheets					
F- T +		Tools and Materials					
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TERMINAL PERFORMANCE OBJECTIVE NO. 8.0

PROOFING AND LOCK-UP

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The learner will, by written examination and / or practical exercise, demonstrate how to handle and tie, proof, clean, correct and lock forms. A proficiency of 80% is expected of the student.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO	CRITERION MEASURES
8.1	The learner, having completed a practical type-setting exercise, will demonstrate to the instructor the correct methods used to tie-up a locked form.	8.1	Demonstrate to the instructor the correct methods that should be used to tie-up a previously assigned composition assignment.
B.2	The learner will, by written examination, name the two (2) following methods for proofing a composition:	8.2	Name, in writing, the two most accepted methods for proofing a composition.
	 The planer method. The proof-press method. 		
8:8 	The learner will, by practical exercise and written examination, demonstrate his knowledge of how to clean and correct composition with 90% proficiency.	8.3	 Having set and tied a composition, you are to submit a revised or final proof to the instructor with the type which has been cleaned.
			2. Place a "T" in the blank before each statement if the statement is true, or an "F" if the statement is false.
			1. Dirty type causes unnecessary work for the composer.
			2. Type cleaner should be poured directly onto the set type.
			3. A cloth, rather than a brush, should be used first to remove ink from the surface of the characters.
			4. It is a good idea to never use sharp pointed tweezers to make corrections.
			5. A proof having errors is often referred to as a "dirty proof".
			115

TERMINAL PERFORMANCE OBJECTIVE NO. 8.0 cont'd.

PROOFING AND LOCK-UP

POTO 1	207:		
NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
8.4	The learner will, by written examination, be capable of identifying the following tools that are displayed by the instructor.	8.4	Identify, in writing, the following tools and equipment used to impose and lock forms as displayed by the instructor.
	1. Chase 2. Imposing Stone 3. Furniture 4. Reglets 5. Quoins 6. Quoin Key 7. Planner Block 8. Galley		 Chase Imposing Stone Furniture Reglets Quoins Quoin Key Planner Block Galley
3.5	The learner will, with 80% proficiency, write and per- form the following procedures for locking-up a form: 1. Place the form in the chase.	8.5	Having set, tied, proofed, and cleaned a form, you are to lock this form and present it to the instructor for approval.
	2. Surround the form with furniture.		2. List the correct procedure steps for locking-up a form.
	3. Fill in with furniture. 4. Insert the quoins.		
	5. Remove string and fit the quoins.		
	6. Plane the form.		
	7. Lock the form.8. Test for lift.		
			1 1 6

Terminal Performance Objective - 8.0

LP.	м/м	Method / Media Selection			
MNo.	No.	Method / Media Selection)11		
8,1	8.1.1	Textbook		•	
			•		
		Demonstration			•
		Tools and Equipment			
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8.2	8.2.1	Textbook			
		The same			
8.8	8.3.1	Instruction Sheets			
		•			
8.4	8.4.1	Textbook			
		Instruction Sheets			
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8.5	8.5.1	Textbook			
		Instruction Sheet	•		
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		Demonstration		•	
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TERMINAL PERFORMANCE OBJECTIVE NO. 9.0

LETTERPRESS (ELECTRICAL POWER DRIVEN)

The learner will, with 80% proficiency, define the three (3) methods of graphic reproduction, the three (3) types of letterpress printing presses, and will identify and describe the function of the main parts of the platen press.

14.			
0.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
9.1	The learner, given the three (3) methods of graphic reproduction, will define each.	9.1	Write a definition of each of the three (3) methods of graphic reproduction given below:
	 Letterpress- printing from type or other raised surface. 	,	 Letterpress Offset Lithography Intaglio
	2. Offset Lithography - printing based on the principle that oil and water will not mix.		
	3. Intaglio - printing from plates in which the design or lettering is etched below the surface of the plate.		
9.2	Given the three (3) types of letter presses, the learner will define each.	9.2	Define each of the following three (3) types of letter presses:
	 Platen - a printing press in which the impression is made when a flat surface called a platen pushes the paper against the type. 		 Platen Cylinder Rotary
	 Cylinder - a press upon which the impression is taken between a cylinder and a flat type form. 		
	 Rotary - a printing press that uses curved printing plates and curved impression cylinder. 		* MI
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TERMINAL PERFORMANCE OBJECTIVE NO. 9.0 cont'd.

LETTERPRESS

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NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
9.8	1. Platen 2. Chase 3. Ink Disc 4. Throw off lever 5. Brake 6. Feed Board 7. Grippers 8. Fly Wheel	9.3	Verbally, identify and describe the functions of the given parts of the platen press. 1. Platen 2. Chase 3. Ink Disc 4. Throw off lever 5. Brake 6. Feed Board 7. Grippers 8. Fly Wheel
	1.9		

Terminal Performance Objective

- 9.0

L P. No	M/M No.	Method / Media Se	lection
9.1	9.1.1	Textbook	e
		Lecture	
une Minney	ZPv	Chalkboard	
4 . 4			
9.2	9.2.1	Textbook	
		Lecture	
		Chalkboard	
9.3	9.3.1	Instruction Sheets	
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TERMINAL PERFORMANCE OBJECTIVE NO. 10.0

OPERATION OF THE POWER DRIVEN PLATEN PRESS

The learner will, orally or by practical exercise, demonstrate his proficiency in designing, setting-up, making impressions, cleaning the press, and distributing type in its' proper storage place. A proficiency of 75% is expected of the learner.

PNO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
I 0.1	The learner, having obtained type setting and make- ready skills in T. P. O.'s six (6) and seven (7), will set an instructor approved practical exercise to be printed using the power-driven platen press.	10.1	Select and set an instructor approved job to be printed using the power-driven platen press.
0.2	The learner will demonstrate by practical exercise and to the instructor, the correct procedures for locking the type form on the bed and adjusting the grippers on the power-driven platen press.	10.2	Having locked-up a type form, you will install this form in the power-driven platen press and adjust the grippers.
0.8	The learner will demonstrate, by practical exercise, the correct procedures for completing a make ready on the power-driven platen press.	10.3	Complete a make ready for the job you have locked-up.
0.4	In the presence of the instructor, the learner will make several (number to be determined by the learner and/or the instructor) clear impressions of the form.	10.4	In the presence of the instructor, you will make several (number to be determined by job requirements) clear impressions.
0.5	After having printed several impressions of the locked- up type form, the learner will clean the press, type the form and distribute the type in the proper storage place.	10.5	Having made several impressions of your locked-up type form, you will clean the press, type the form and distribute the type in its' proper storage place.
			g
in in in in in in in in in in in in in i			121

Terminal Performance Objective - 10.0

I. P. No.	M/M No	Met	hod / Media Selection
10.1	10.1	Textbook	
		Media Center	· · · · · ·
10.2	10.2.1	Textbook	
		Demonstration	1.00
		Tools and Equipment	
10.3	10.3.1	Textbook	
		Demonstration	
	·	Tools and Materials	•
10.4	10.4.1	Demonstration	
. *		Tools and Equipment	
10.5	10.5.1	Textbook	
		Tools and Materials	
		Instruction Sheets	
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TERMINAL PERFORMANCE OBJECTIVE NO. 11.0

PHOTOGRAPHY

The learner will, with 75% proficiency, write a brief research paper on a special photoprinting process, and produce the required negatives and /or positives to print this process.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
11.1	The learner will select, or choose one of the techniques listed below, a subject for a brief research paper concerning a special photoprinting process:	11.1	You will, with the aid of the instructor, select a topic for a brief research paper concerning a special photoprinting process.
ige Bir Eigen Bir	Special Photoprinting Processes		
	 Photogram Cropping Two pictures on one Bas-relief Easel distortion Print that is both nagative and positive 		
11.2	The learner, after having selected a special photoprinting process, will produce the necessary negatives and /or positives required to print this process.	11.2	Having selected a special photoprinting process, you will produce the necessary negatives and / or positives required to print this process.
11.3	The learner will, using available or special darkroom equipment, chemicals, or processes, make prints of the selected photoprinting process.	11.3	Use silable or special darkroom equipment, cale scale, or processes to make prints of the special photoprinting process that you selected.
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Terminal Performance Objective - 11.0

I. P.	M/M No.	Method / Media Selection
11.1	11.1.1	
		Lecture
		Chalkboard
11.2	11.2.1	Instruction Sheets
11.3	11.3.1	Instruction Sheets
		124

TERMINAL PERFORMANCE OBJECTIVE NO. 12.0

PRINCIPLES OF LITHOGRAPHY

The learner, given instruction sheets illustrating the different parts of the offset press and operating procedures of same, will recall the parts of an offset press and various offset procedures by examination with a proficiency of 75%.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
121	The learner will, in writing, identify the different parts of the offset press as pictured on an instruction sheet given by the instructor.	12.1	Given a diagram showing the different parts of the offset press, you will identify these parts in writing.
12:2	The learner will, by examination, demonstrate his ability to understand different principles of lithography.	12.2	You will demonstrate your knowledge of how the offset press functions and of different lithography principles by completing the following examination.
			Circle the "T" before each statement that is true. If the statement is false, circle the "F".
			T F 1. The handwheel of the offset press can be turned in either direction.
			T F 2. The gum should be removed from a metal plate before it is installed on the press.
			T F 3. The flow of ink is reduced when the ink fountain adjusting screws are turned counter-clockwise.
			T F 4. A paper plate should be pre-dampened before being installed on the press.
		ļ	Multiple Choice
	Therefore the state of the stat		5. In offset lithography, (a) The image is printed directly from plate to paper, (b) The image is transferred to the rubber stamp, then to the paper,
	125		117

TERMINAL PERFORMANCE OBJECTIVE NO. 12.0 cont'd.

PRINCIPLES OF LITHOGRAPHY

185 - 184 185 - 184				_
NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES	:
		12.2	 (c) The image is transferred from the blanket to the plate, and from the plate to the paper. 6. The lithography plate should be moistened (a) Before ink is applied, (b) After ink has been applied, (c) Before ink has been applied and continuously while ink is being applied. 7. The lithographic principles was discovered in 1798 by (a) Alois Senefelder, (b) Benjamin Franklin, (c) Johann Guttenberg. 8. While adjusting the ink fountain, (a) The ductor roller should contact the distribution rollers, (b) The distribution rollers should contact the fountain rollers, (c) The ductor roller should contact the fountain rollers. 	
			· 1 2 6	

- 12.0

Terminal Performance Objective

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I.P.		
No.	No.	Method / Media Selection
12.1	12.1.1	Textbook
	ļ	Reference Books
		Instruction Sheets
12.2	12.2.1	
		Demonstration
		Chalkboard
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TERMINAL PERFORMANCE OBJECTIVE NO. 13.0

OFFSET PLATE MAKING

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The learner will, with 80% proficiency, design a multicolor offset printing job, which requires the use of a tint screen, and produce both a presensitized aluminum plate and a direct image master to print the job on the offset press.

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NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES	
183	The learner will design a multicolor offset printing job which will require the use of one (1) presensitize aiuminum plate, one (1) paper master, and the use of a tint screen.	13.1	Design a two color offset printing job which will necessitate the use of one (1) presensitized aluminum plare, one (1) paper master, and the tint screen. Submit this design for instructor approval.	
13.2]	The learner, using the procedure for masking up a job to be exposed to a presensitized aluminum plate, (ref. 12.1), will mask up a single color image using the tint screen.	13.2	Mask up a single color image area to be exposed to a presensitized aluminum plate.	
] 18.8	Using the correct exposure (ref. 12.2) and developing (ref. 12.3) procedures, the learner will produce an aluminum plate ready for use on the offset press.	13.3	Correctly expose (ref. 12.2) and develop (ref. 12.3) the aluminum plate made previously (ref. 13.2).	
13.4	The learner will prepare a direct image master to print the remainder of the job designed previously (ref. 13.1).	13.4	Prepare a direct image master to print the remainder of the job previously designed (ref. 13.1).	
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Terminal Performance Objective - 13.0

I, P.	м/м	
No.	No	Method / Media Selection
13.1	13.1.1	Reference Books
		Media Center
		Textbooks
		Instruction Sheets
13.2	13.2.1	Demonstration
		Textbook
		Instruction Sheets
		Tools and Materials
13.3	13.3.1	Demonstration
		Textbooks
		Instruction Sheets
		Tools and Materials
13.4	13.4.1	Textbooks
		Instruction Sheets
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TERMINAL PERFORMANCE OBJECTIVE NO. 14.0

OFFSET PRESS OPERATION

The learner will, with 80% proficiency, orally define the three (3) basic operating systems of the offset press and set up, test, and run copies from a presensitized aluminum plate and paper master. The learner will also demonstrate, both orally and by practical exercise, how to clean and secure the offset press for the next operator.

INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES	
The learner will orally define the function of the following basic three (3) systems of the offset press to the instructor.	14.1	Orally describe to the instructor the function of each of the following basic systems of an offset press:	ř
 Paper Delivery System Inking System Moistening System 		 Paper Delivery System Inking System Moistening System 	1/4
In the presence of the instructor, the learner will set up, test, and run copies of the two (2) masters (one (1) presensitized aluminum, and one (1) direct image master) made earlier for a multicolor printing job.	14.2	In the presence of the instructor, you will set up, test, and run copies of the two (2) masters you made for a multicolor print job.	
The learner will demonstrate, both orally and by practical exercise, how to clean and secure the offset press. Note: In most cases, the instructor will reserve the right to clean the inking fountain and moistening system.	14.3	In the presence of the instructor, you will remove all ink from the inking system (excluding the ink fountain) and secure the press for the next operator.	
	The learner will orally define the function of the following basic three (3) systems of the offset press to the instructor. 1. Paper Delivery System 2. Inking System 3. Moistening System In the presence of the instructor, the learner will set up, test, and run copies of the two (2) masters (one (1) presensitized aluminum, and one (1) direct image master) made earlier for a multicolor printing job. The learner will demonstrate, both orally and by practical exercise, how to clean and secure the offset press. Note: In most cases, the instructor will reserve the right to clean the inking fountain and	The learner will orally define the function of the following basic three (3) systems of the offset press to the instructor. 1. Paper Delivery System 2. Inking System 3. Moistening System In the presence of the instructor, the learner will set up, test, and run copies of the two (2) masters (one (1) presensitized aluminum, and one (1) direct image master) made earlier for a multicolor printing job. The learner will demonstrate, both orally and by practical exercise, how to clean and secure the offset press. Note: In most cases, the instructor will reserve the right to clean the inking fountain and	The learner will orally define the function of the following basic three (3) systems of the offset press to the instructor. 1. Paper Delivery System 2. Inking System 3. Moistening System 3. Moistening System In the presence of the instructor, the learner will set up, test, and run copies of the two (2) masters (one (1) presensitized aluminum, and one (1) direct image master) made earlier for a multicolor printing job. The learner will demonstrate, both orally and by practical exercise, how to clean and secure the offset press. Note: In most cases, the instructor will reserve the right to clean the inking fountain and

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Terminal Performance Objective - 14.0

I, P.	M/M No.	Method / Media Selection
14.1	14.1.1	Lecture
		Textbooks
14.2	14.2.1	
		Textbook
		Demonstration
		Tools and Equipment
14.3	14.3.1	
		Tools and Materials
		Textbook
		Demonstration
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TERMINAL PERFORMANCE OBJECTIVE NO. 15.0

SILK SCREENING

The learner will, with 75% proficiency, design and print a multicolor silk screen job as directed by the instructor.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO	. CRITERION MEASURES
15.1	The learner will design, or select a design for a multi- color silkscreen job. This design will include the exact placement of register marks and colors.	15.3	Design a multicolor silkscreen job indicating the placement of register marks and different colors.
15.2	The learner will, using either laquer or water soluble film, cut a separate film for each color of the design to be printed. (Register marks must be included).	15.2	Cut a separate film, using either lacquer or water soluble film, for each color of the design to be printed. Register marks must be included.
15.3	The learner will adhere, using either water or adhering liquid, the cut pieces of film to silk screens and set up register guides.	15.3	Using either water (for water soluble film) or adhering liquid (for lacquer film), secure the cut pieces of film to silk screens and set up register guides.
15.4	The learner will print each of the colors represented in his "key design" using the following guidelines:	15.4	Print each of the colors represented in your "key design" following these guidelines:
	 If possible, print background or most descriptive part os design first. 		If possible, print background or most descriptive part of design first.
	2. If colors overload, print the lighter colors first	•	2. If colors overload, print the lighter colors first.
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Terminal Performance Objective - 15.0

L.P. No	M/M No	Method / Media Selection
15.1	15.1.1	
/ ** **		Reference Books and Materials
15.2	15.2.1	Instruction Sheets
		Demonstration
		Tools and Materials
15.3	15.3.1	Instruction Sheets
		Demonstration
		Tools and Materials
5.4	15.4.1	Textbook
l	1	Demonstration
·		Tools and Materials
		J. Marine
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DRAFTING IA

ACCREDITATION NO. 5813A

LENGTH OF COURSE: 1 SEMESTER

GRADE LEVEL: 9th

PROGRAM PATH: CAREER EDUCATION, EXPLORATORY, PRE-COLLEGE

PREREQUISITE(S): DRAFTING 7 OR 8

COURSE DESCRIPTION:

Introduction of messanical drafting as a language of industry. Study in the areas of sketching, orthographic projection, simple geometric construction, and blueprint reading.



DRAFTING IA 9th GRADE

- 1.0 Orientation
- 2.0 Occupations
- 3.0 Tools and Equipment
- 4.0 Sketching-Freehand
- 5.0 Lettering
- 6.0 Dimensioning
- 7.0 Orthographic Projection

COURSE DRAFTING IA

9th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 1.0

ORIENTATION

The learner will demonstrate through performance and written examination, his ability to abide by the rules of good drafting practices and will identify the criteria measures used. He will do this with 90% proficiency.

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NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO	O. CRITERION MEASURES
1:	The learner will identify, in writing, the drafting equipment and table assigned to him. 1. T Square 2. 30 - 60 Triangle 3. 45 Triangle 4. Scale 5. Drafting Board 6. Pencils	1.1	On the handout sheet, list the table number and equipment numbers issued to you. Sign the sheet.
1.2	The learner will demonstrate daily his ability and willingness to observe and follow the rules of good drafting room procedures. 1. Don't run in the laboratory 2. Protect your equipment 3. Work quietly 4. Observe fire evacuation rules	1.2	You will be observed and graded on your ability and willingness to follow the rules as stated by your instructor.
1.3	The learner will properly clean and store his equipment after using.	1.3	Clean and store all equipment after using.
1.4	In writing, the learner will identify the criteria measures used in the laboratory. 1. Assigned problems 2. Tests 3. Written work (other than tests) 4. Daily performance	1.4	List, in writing, four (4) areas to be considered in arriving at a final grade.
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- 1.0

Terminal Performance Objective

L. P.	м/м		4 / 1		
No.	No.	,	Method / Media Selection		
1.1	1.1.1	Lecture			
		Demonstration			
		Handout Sheet			
		Film			
A STATE OF THE STA			. •		
1.2	1.2.1	Lecture			
		Observation			
1.3	1.3.1	Demonstration			
		Materials			
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i de		Observation .			
1.4	1.4.1	Lecture			•
		Demonstration			
		Handout Sheet			
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COURSE DRAFTING IA

9th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 2.0

OCCUPATIONS

The learner will, with 75% proficiency, write a brief description of drafting as a profession, listing at least five (5) areas of specialization, and describe briefly the general training available.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES	
25	The learner will write a brief description of drafting as a profession.	2.1	Using your text or media center material, write a brief description of drafting as a profession.	
1.22	The learner will list five (5) areas of specialization within the drafting profession. 1. Technical drafting 2. Design 3. Engineering 4. Teaching 5. Architecture	2.2	In writing, list five (5) areas of specialization in drafting, using your text or media center material as a guide.	
28	The learner will list, in writing, three (3) of the possible sources of training available. 1. Armed services 2. Technical school 3. College	2.3	In writing, list three (3) sources of training available for draftsmen, using your text and media center material as a guide.	
	4. Apprenticeship	,		

- 2.0

Terminal Performance Objective

I.P. No	M/M No.	Method / Media Selection
2.1	2.1.1	Lecture
		Media Center
		Text
or Latinoperate and the second		Handout Sheet
2,2	2.2.1	Lecture
n mis, 3r = 10		Media Center
		Text
·		Handout Sheet
2.3	2.3.1	Lecture
	l	Media Center
1		Text
		Handout Sheet
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COURSE DRAFTING IA

9th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 3.0

TOOLS AND EQUIPMENT

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The learner will demonstrate through performance and examination, his ability to identify the basic tools of drafting with a proficiency of 80%.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
81	Shown pictures or examples of basic drawing tools, the learner will identify them on paper.	3.1	Identify, in writing, the equipment and tools shown you.
	1. T Square 2. Drawing Board 3. Architect's Scale 4. Eraser 5. Erasing Shield 6. 30 - 60 Triangle 7. 45 Triangle 8. Drop Bow Compass 9. Center Bow Compass 10. Beam Compass 11. Dividers 12. Irregular Curve (French) 13. Drawing Pencil 14. Drafting Duster 15. Pencil Pointer		
<u>2</u> _	The learner will identify the different grades of drawing pencils and tell the best use for each.	3.2	Define the best use of the following grade pencils:
	(1) HB, F, H - lettering and sketching (2) 2H - finished drawing (3) 4H, 5H, 6H - construction		(1) HB, F, H (2) 2H (3) 4H, 5H, 6H
	The learner, using American standard trimmed sizes of drawing sheets, will identify the first three (3) standard sizes of sheets.	3.3	i st the first three (3) sizes of trimmed arawing sheets.
	1. 8½ x 11 2. 11 x 17 8. 17 x 22		
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Terminal Performance Objective - 3.0

I. P. No	M/M No	Method / Media Selection	Profession and the second
3.1	3.1.1		
	0.1.1	Demonstration	
		Text	
		Tools and Equipment	
		Handout Sheet	
		nandout Sneet	
3.2	3.2.1	Lecture	
		Demonstration	
		Text	* s _a
		Samples	
3.3	3.3.1	Lecture	
		Demonstration	
		Samples	
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COURSE	DRAFTING	IA	

TERMINAL PERFORMANCE OBJECTIVE NO. 4.0

9th Grade

SKETCHING

By performance, the learner will demonstrate his ability to use principles of freehand sketching with 80% proficiency.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES	·
4.1	Demonstrate on paper various principles of freehand sketching given by the instructor.	4.1	On paper, demonstrate the following sketching techniques:	
	• • • • • • • • • • • • • • • • • • •		 Horizontal lines Vertical lines 3. Inclined lines Arcs and Circles 	
			5. Proportions6. Alignment	
4.2	The learner will sketch problems in straight lines, circles, arcs, and irregular curves.	4.2	Using the text issued, sketch the problems assigned to you by the instructor.	
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Terminal Performance Objective - 4.0

I. P. No	M/M No.	Method / Media Selection		
4.1	4.1.1	Chalkboard Demonstration	•	
, T. T.	·	Graph Paper		
		Equipment		
		Text		
4.2	4.2.1	Chalkboard Demonstration		
		Handout Sheet		
		Equipment		
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COURSE	DRAFTING	IA

TERMINAL PERFORMANCE OBJECTIVE NO. 5.0

9th Grade

LFTTERING

The learner, with 80% proficiency, will demonstrate through performance on paper, his knowledge of proper lettering techniques.

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NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
5.1	Using proper rules of composition, the learner will demonstrate his lettering ability on paper. H 2 3 H Size of letters.	5.1	On paper demonstrate the following rules of composition: 1. Proper spacing between letters 2. Proper spacing between words and sentences. 3. Proper spacing between lines
	 Judge by eye Equal to letter "O", and "OO". Equal to height of capital letters 		
5.2	The learner will demonstrate his proficiency in using a lettering guide.	5.2	Layout different line widths, assigned by the instructor, using a lettering guide.
			144

Terminal Performance Objective - 5.0

I. P.	M/M			
No_	No.	Method / Media Selection		
5.1	5.1 <i>.</i> 1	Chalkboard Demonstration		
		Handout Sheet		
		Equipment		•
5.2	5.2.1	Demonstration		
	1	Equipment		2 1 *** = 41
		Handout Sheet	ψ.	
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COURSE DRAFTING IA

9th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 6.0

DIMENSIONING

The learner will demonstrate, by performance and with 80% proficiency, his ability to accurately dimension a drawing, giving sizes, notes, and necessary shop information.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
6.1	The learner will draw the four (4) basic dimensioning lines as given in The Draftsman's Alphabet of Lines. 1. Extension lines 2. Dimension lines 3. Center lines 4. Leaders	6.1	On the assignment sheet issued by the instructor, draw the four (4) basic dimension lines.
6.2	The learner will neatly and accurately draw Arrowhead representation.	6.2	Draw a conventional Arrowhead representation.
	TOUCHES, BUT DOES NOT CROSS		e valente.
FRIC	Arrowheads	146	138

COURSE DRAFTING IA 9th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 6.0 cont'd.

DIMENSIONING

	:	
INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
The learner will demonstrate his ability to neatly draw dimensioning numbers.	6.3	On the assignment sheet issued by your instructor accurately and neatly letter the fractions and whole numbers.
BORE 18 And fractions.		
The learner will, in writing, demonstrate his ability to properly locate d. mensioning figures on a drawing.	6.4	Place the necessary dimensioning figures on the assigned problem following the standard rule that "all dimensions should read from the bottom up, whenever possible".
The learner will demonstrate his ability to properly dimension angles.	6.5	Dimension the angles assigned by your instructor, using your textbook as a guide.
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COURSE	DRAFTING	IA

TERMINAL PERFORMANCE OBJECTIVE NO. 6.0 cont'd.

DIMENSIONING

INTI MEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
The learner will demonstrate his ability to properly place the necessary dimensions and notes to a finished drawing. He will follow these basic rules:	6.6	Using the basic dimension rules, dimension the problem issued by your instructor.
 Smaller dimensions should be placed nearest the object. 		
2. Overall dimensions are always farthest from the object.		
Avoid placing dimensions where dimension lines will cross extension lines.		
 Never place a dimension to coincide with a line of the drawing. 		
5. Avoid placing a dimension on a view unless some advantage is gained.		
The learner will demonstrate his ability to finish a drawing by placing the dimensions properly using the four (4) steps of finish dimensioning.	6.7	Finish the assigned drawing, following the four (4) step method given by your instructor.
1. Draw extension lines dark and sharp		
2. Use the scale to space dimensions 1/4 from the object and at least 1/4 apart.		
3. Draw all arrowheads about 1/8 long and very narrow.		
4. Add all dimension figures and lettering		
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		140
	148	

Terminal Performance Objective

- 6.0

I. P. No.	M/M No	Method / Media Selection		
6.1	6.1.1	Chalkboard Demonstration		
		Text	•	
	į	Tools and Equipment		
		Film		
		Handout Sheet		
6.2	6.2.1	Demonstration		4, €
		Tools and Equipment	Ge.	
		Film	•	•
		Handout Sheet		
6.3	6.3.1	Demonstration		
		Tools and Equipment	,	
		Film		
		Handout Sheet		
6.4	6.4.1	Chalkboard Demonstration		
		Tools and Equipment		
		Film		
		Text		
		Handout Sheet		
6.5	6.5.1	Demonstration		Ŧ
		Tools and Equipment		
				141

Terminal Performance Objective - 6.0 cont'd.

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No.	No.	<u>N</u>	Method / Media Selection	
6.5	6.5.1	Text		
		Film		
		Handout Sheet		
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6.6.	6.6.1	Demonstration		
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		Text	•	
		Film		
		Handout Sheet		
6.7	6.7.1	Demonstration		
		Tools and Equipment		
- - -		Text		
		Film		1
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COURSE DRAFTING IA

9th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 7.0

GEOMETRIC CONSTRUCTION

143

The learner will, with 80% proficiency, demonstrate his ability to draw the basic geometric construction techniques involved in drafting. These will include construction of circles, and arcs.

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NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES	
	The learner will draw a circle using a scale and compass.	7.1	 Draw a circle with a 1 radius. Measure the radius with the scale and set the compass. Lightly draw the circle on scrap paper and check your measurement. Adjust the compass accordingly. Test again. Hold the compass in one hand and start at the "9 o'clock position". Lean the compass slightly forward and draw the circle in a clockwise direction by rotating the handle between the thumb and fore finger. 	
7.2	Demonstrate your ability to accurately draw an arc, joining two (2) lines. LINES TO BE RADRUS OF ARC ARC ARC ARC ARC ARC ARC ARC ARC ARC	7.2	 Given two (2) lines at an (any) angle, join these two (2) with an arc. Locate the arc center by constructing a line parallel to the lines to be drawn at a distance equal to the radius of the arc. Set the compass with the arc radius and join the two (2) lines with an arc. 	

Terminal Performance Objective

- 7.0

I, P.	M/M No.	Method / Media Selection	
7.1	7.1.1		
1 ".1	(.1.1	Tools	
		Equipment	
		Text	
		Instruction Sheet	
		Handout Sheet	
7. 2	7.21	Chalkboard Demonstration	
		Tools	
		Equipment	
		Text	
		Handout Sheet	
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COURSE DRAFTING IA

TERMINAL PERFORMANCE OBJECTIVE NO. 8.0

ORTHOGRAPHIC PROJECTION

With a proficiency of 80% the learner will demonstrate through performance on paper, his ability to describe the various views of a working or multiview drawing.

O.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
8.1	Demonstrate on paper, various principles of orthographic projection given by the instructor.	8.1	On paper, demonstrate the following orthographic projection techniques: 1. Selection of views 2. Spacing of views
*****			3. Hidden lines and surfaces.
8.2	Given various assignments by the instructor, the learner will demonstrate his ability to choose the correct views.	8.2	On paper, draw the problems assigned by the instructor.
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Terminal Performance Objective - 8.0

I. P. No.	M/M No.	Method / Media Selection
8.1	8.1.1	Chalkboard Demonstration
		Tools
		Equipment
		Text
		Handout Sheet
8.2	8.2.1	Lecture
		Tools
		Equipment
		Handout Sheet
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DRAFTING IB

ACCREDITATION NO. 5813B

LENGTH OF COURSE: 1 SEMESTER

GRADE LEVEL: 9th

PROGRAM PATH: CAREER EDUCATION, EXPLORATORY, PRE-COLLEGE

PREREQUISITE(S): DRAFTING IA

COURSE DESCRIPTION:

Sequential study of the areas covered in Drafting IA for the above average student.



DRAFTING IB

- 1.0 Orientation
- 2.0 Occupations
- 3.0 Tools and Equipment
- 4.0 Lettering
- 5.0 Geometrics
- 6.0 Sectional Views
- 7.0 Pictorial Drawing



COURSE DRAFTING IB

9th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 1.0

ORIENTATION

The learner will demonstrate through performance and written examination, his ability to abide by the rules of good drafting practices and will identify the criteria measures used. He will do this with 90% proficiency.

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NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
1.1	The learner will identify, in writing, the drafting equipment and table assigned to him.	1.1	On the handout sheet, list the table number and equipment numbers issued to you. Sign the sheet.
	 T Square 30 - 60 Triangle 45 Triangle Scale 		
Francisco	5. Drafting Board 6. Pencils		
1.2	The learner will demonstrate daily his ability and willingness to observe and follow the rules of good drafting room procedures.	1.2	You will be observed and graded on your ability and willingness to follow the rules as stated by your instructor.
	 Don't run in the laboratory Protect your equipment Work quietly Observe fire evacuation rules 		
1.3	The learner will properly clean and stire his equipment after using.	1.3	Clean and store all equipment after using.
1.4	In writing, the learner will identify the criteria measures used in the laboratory.	1.4	List, in writing, four (4) areas to be considered in arriving at a final grade.
	 Assigned problems Tests Written work (other than tests) Daily performance 		
			149
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Terminal Performance Objectives - 1.0

I. P.	M/M No.	Method / Media Selection
No.		
1.1	1.1.1	Lecture
		Demonstration
		Handout Sheet
		Film
1.2	1.2.1	
		Observation
1.3	1.3.1	Demonstration
		Materials
		Observation
1.4	1.4.1	Lecture
		Demonstration
50 -		Handout Sheet
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COURSE DRAFTING IB

TERMINAL PERFORMANCE OBJECTIVE NO. 2.0

OCCUPATIONS

The learner will, with 75% proficiency, write a brief description of drafting as a profession, listing at least five (5) areas of specialization, and describe briefly the general training available.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
2.1	The learner will write a brief description of drafting as a profession.	2.1	Using your text or media center material, write a brief description of drafting as a profession.
2.2	The learner will list five (5) areas of specialization within the drafting profession.	2.2	In writing, list five (5) areas of specialization in drafting, using your text or media center material as a guide.
	 Technical drafting Design Engineering Teaching Architecture 		
2.3	The learner will list, in writing, three (3) of the possible sources of training available. 1. Armed services	2.3	In writing, list three (3) sources of training available for draftsmen, using your text and media center material as a guide.
	2. Technical school3. College4. Apprenticeship		-
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Terminal Performance Objectives - 2.0

I. P. No	M/M No.	Method / Media Selection	
2.1	2.1.1	Lecture	
		Media Center	
		Text	·
		Handout Sheet	
	001	Lecture	
2.2	2.2.1	·	
		Media Center	
		Text	
		Handout Sheet	
2.3	2.3.1	Lecture	
		Media Center	
		Text	
		Handout Sheet	
		Handout Sileet	
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		152	2

COURSE	DRAFTING IB	

TERMINAL PERFORMANCE OBJECTIVE NO. 3.0

TOOLS AND EQUIPMENT

The learner will demonstrate through performance and examination, his ability to identify the basic tools of drafting with a proficiency of 80%.

NO. INTERMEDIATE PERFORMANCE OBJECTIVES NO. CRITERION MEASURES 3.1 Shown pictures or examples of basic drawing tools, the learner will identify them on paper 3.1 Identify, in writing, the equipment an shown you.	nd tools
3.1 Shown pictures or examples of basic drawing tools, the 3.1 Identify, in writing, the equipment an	nd tools
	
1. T Square 2. Drawing Board 3. Architect's Scale 4. Eraser 5. Erasing Shield 6. 30 - 60 Triangle 7. 45 Triangle 8. Drop Bow Compass 9. Center Bow Compass 10. Beam Compass 11. Dividers 12. Irregular Curve (French) 13. Drawing Pencil 14. Drafting Duster 15. Pencil Pointer	
The learner will identify the different grades of drawing pencils and tell the best use for each. (1) HB, F, H - lettering and sketching (2) 2H - finished drawing (3) 4H, 5H, 6H - construction 3.2 Define the best use of the following graph pencils: (1) HB, F, H (2) 2H (3) 4H, 5H, 6H	rade
The learner, using American standard trimmed sizes of drawing sheets, will identify the first three (3) standard sizes of sheets. 1. 8½ x 11 2. 11 x 17 3. 17 x 22	d
	153

Terminal Performance Objectives - 3.0

•	, P.	M/M No.	Method / Media Selection
	3.1	3.1.1	
j			Demonstration
			Text
			Tools and Equipment
			Handout Sheet
	3.2	3.2.1	Lecture
			Demonstration
			Text
			Samples
	3.3	3.3.1	Lecture
	3.3	3.3.1	
			Demonstration
			Samples
			162
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			154

COURSE DRAFTING IB

TERMINAL	PE	RFOI	RMAN	CE
OBJECTIV	E	NO.	4.0	_

SKETCHIN	G	
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By performance, the learner will demonstrate his ability to use principles of freehand sketching with 80% proficiency.

NO.	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
l.1	Demonstrate on paper various principles of freehand sketching given by the instructor.	4.1	On paper, demonstrate the following sketching techniques: 1. Horizontal lines 2. Vertical lines 3. Inclines lines 4. Arcs and Circles 5. Proportions 6. Alignment
1.2	The learner will sketch problems in straight lines,, circles, arcs, and irregular curves.	4.2	Using the text issued, sketch the problems assigned to you by the instructor.
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Terminal Performance Objectives - 4.0

	I. P. No	M/M No.	Method / Media Selection
1	4.1	4.1.1	
			Graph Paper
			Equipment
Ì			Text
Ì	4.2	4.2.1	Chalkboard Demonstration
	7.2	1.2	Handout Sheet
			Equipment
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TERMINAL PERFORMANCE OBJECTIVE NO. 5.0

GEOMETRICS

The learner will expand his knowledge of the Geometrics involved in Drafting, by demonstrating his ability to mechanically bisect an angle, an arc, divide a line into equal parts, reproduce squares and draw parallel lines. He will attain 90% accuracy.

INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
Given an angle, the learner will bisect it. Given: Angle ABC with B as a center.	5.1	Given an angle with B as a center, bisect this angle.
8		
c		
1.) With B as a center, draw an arc of any radius, intersecting AB and BC. Label the intersections as D and E.		
B A		t a second of the second of th
E		
2.) Using a compass setting greater than one half AB and with D and E as centers, draw intersecting arcs. A line drawn through these intersecting arcs and point B will bisect the angle.		
A		
E C		
		165

COURSE DRAFTING IB 9th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. <u>5.0</u> cont'd.

-INTERMEDIATE PERFORMANCE OBJECTIVE	s NO.	CRITERION MEASURES		
2 The learner will bisect an arc, given: Arc AB.	5.2	Given any arc AB, bisect it.		
Z E				
A				
8 6 6				
rates				
X				
D . F				
1.) With a compass setting greater than one half the	he ve			
and below arc AB. Repeat at B. A line drawn				
1.) With a compass setting greater than one half the length of AB, from point A scribe and arc about and below arc AB. Repeat at B. A line drawn between these intersecting arcs will bisect the given arc. (Note: lines are bisected in the same	ne			
manner.)				
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COURSE DRAFTING IB

9th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. <u>5.0</u> cont'd.

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INTERMEDIATE PERFORMANCE OBJECTIVES	s NO.	CRITERION MEASURES	
The learner will mechanically draw a square with the diagonal given.	5.3	Draw the top view of a square bolt head (across corners) using the diagonal method.	
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COURSE DRAFTING IB

9th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. <u>5.0</u> cont'd.

INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
4 The learner will mechanically draw a square with the side given.	5.4	Draw the top view of a square bolt head (across flats) using the side given method.
		168 160

COURSE DRAFTING IB 9th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 5.0 cont'd.

INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES	
The learner will divide a line of unknown length into a given number of equal divisions. Given: line AB of unknown length, to be divided into seven (7) equal divisions.		Divide any line of unknown length into equal divisions as requested by the instructor.	
А В		,	
1.) Project construction lines from A and B parallel to one another. Set the compass or dividers to one quarter inch (1/4) and step off from A seven (7) spaces on the projected line. Repeat from B.			
The state of the s	e e e e e e e e e e e e e e e e e e e		
B.		f - c training	
2.) Connect these points with construction lines. The intersections across A and B will give you the points of division.			
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No	No	Method / Media Selection	· 445
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		Equipment	
5.2	5.2.1	Demonstration	
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3		Equipment · ·	
		Handout Sheet	e e e e e e e e e e e e e e e e e e e
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5.3	5.3.1	Demonstration	
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		Handout Sheet	
5.4	5.4.1	Demonstration	
		Equipment	
		Handout Sheet	
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D.D	5.5.1	Demonstration	
		Equipment	
		Handout Sheet	
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COURSE DRAFTING IB 9th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 6.0

SECTIONAL VIEWS

With 90% accuracy, the learner will demeastrate his ability to draw an object employing sectional views (full or half) to describe interior shapes or hidden details.

ÑŌ:	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
\$ 6.1 \$ 6.1	The learner will define in writing: 1. Full section - object cut clear through. 2. Half section - half the inside or outside features.	6.1	Define in writing these terms: 1. Full section 2. Half section
6.2	Draw the cutting plane symbol and a section line symbol.	6.2	Draw a section line symbol and the proper cross hatching to represent a sectioned view.
			1
	SECTIONAL VIEW	-20-7	75-
6.8	Using the proper symbols, draw a full and half section.	6.3	Draw the front and top view of a solid cylinder 5 long and 3 in diameter. Show this object in a full section and a half section.
			171



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6.1	6.1.1	Chalkboard Demonstration				is,	*-	
		Text			i			- 4
		Film						
		Handout Sheet	A Section 1989			Ē		r
6.2	6.2.1	Demonstration						
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		Tools and Equipemnt	•					
		Film					4	
		Handout Sheet						
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6.8	6.3.1	Demonstration						
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		Film	دهور					
		Handout Sheet						
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COURSE DRAFTING IB

9th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 7.0

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PICTORIAL DRAWING

The learner will demonstrate his ability to do pictorial drafting, showing objects in isometric, cavalier, and cabinet positions.

E.			
	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
1	The learner will draw an object isometrically, using a T-Square, and a 30 - 60 triangle, setting up the axes and completing the drawing.	7.1	Draw an isometric drawing of a 4 inch cube, using a pencil, a T-Square, and a 30 - 60 triangle.
	120.		
.2	Isometric axes. The learner will draw a cavalier oblique drawing of an object using a T-Square and a 45 triangle.	7.2	Draw a cavalier oblique view of a rectangular solid 3 high, 3 wide, 4 in length.
	Object using a 1-5quate and a 25		
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COURSE DRAFTING IB 9th Grade

TERMINAL PERFORMANCE OBJECTIVE NO. 7.0 cont'd.

PICTORIAL DRAWING

o .	INTERMEDIATE PERFORMANCE OBJECTIVES	NO.	CRITERION MEASURES
7.8	The learner will draw a cabinet oblique of a 2 cube.	7.3	Draw a cabinet oblique of a 2 cube using a T-Square and a 45 triangle.
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	P OF TRUE LENGTH		
	(9) CABINET OBLIQUE		
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I. P. No	M/M No.	Method / Media Selection		
7.1	7.1.1	Demonstration		
		Tools		
		Equipment		
		Text		,
,		Instruction Sheet		
*		Handout Sheet		
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7.2	7.2.1	Chalkboard Demonstration		
		Tools		
İ		Equipment		
		Text		
		Handout Sheet		
7.3	7.3.1	Chalkboard Demonstration	ų	
		Tools		
		Equipment	•	
		Text		
		Handout Sheet		
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INDUSTRIAL ARTS EQUIPMENT LIST

GRAPHIC COMMUNICATIONS

JUNIOR HIGH SCHOOL

LETTERPRESS PRINTING

10	Fonts	Type, Assorted
3	5 lb. pkg.	Leads, 2 pt., General 24 inches
3	10 lb. pkg.	Slugs, 6 pt., General 24 inches
	5 lb. pkg.	Lines, 1 pt. Center on 2 pt. Body
$\overline{2}$	5 lb. pkg.	Lines, 2 pt. Center on 2 pt. Body
2 2 4	each	Rules, Perforating, Boyd, 24 inches lg.
12	each	Gauges, Line- Brass, Rouse, 12 inches
10	each	Composing Sticks, 6 inches
2	each	Composing Sticks, 10 inches
- 2	doz.	Quoins, Regular
2	doz.	Quoins, Quick-Lock
2 2	each	Keys, Quoin (regular)
2	each	Keys, Quoin (Quick-Lock)
· 1	each	Block Planer
î	each	Press Proofing (Challenge)
î	each	Table, Imposing w/Furniture and reglets (American)
24	each	Galleys, Rustproof
2	each	Presses, Hand-Operated "Superior"
12	each	Chases
	each	Knives, Inking, 6 inches
2	each	Brushes, Type Cleaning
2 2 2 6	each	Cabinets, Type Storage w/Lead and Slug Banks
 6	each "	Tweezers
· · · <u>Ť</u> · ;·· ·	each	Bullman Paper Cutter, Size 18 inches
ī	each	Bullman Paper Cutter, Size 36 inches
	each	Mitering Machine (Rouse)
1 .	each	Lead and Slug Cutter (Rouse)
2	each	Justrite Safety CAn, (qt. size)
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BOOKBINDING

1 1 3	each each Fonts	Vise, Bookbinding w/Attachments (Pratt) Hot Stamping Machine (Halvorford - Kwikprint) Type, Hot Stamping-Short Fonts
1	each	Staple Machine, Acme (Foot Power) or Swingline Electric
1	each	Paper Cutter, 26 inches Challenge
1	doz.	Folders, Bone
1	doz.	Scissors
1 .	each	Punch, Plastic (Speed - O - Print)
1	each	Binder, Plastic (Speed -O- Print)
1	each	Punch, 3 Hole (Bates)

LINOLEUM BLOCK PRINTING

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	sets	Carving Tools (Miller Falls)
. <u>4</u> 2	each	Dispensers, Masking Tape
		-
	OFFSET PRINTIN	JG .
	each	Folder, Electric, 12 inch Rollers, (Fasfold Model)
1	each	Jogger, Flat Top, Electric (Martin Yale)
1	each	Press, Offset, A. B. Dick Model 326
1 1	each	Plate Maker, A. B. Dick Model 106
	each	Ink Gun, Cartridge
3 1	each	Typewriter, I. B. M. Selector-Matic
	each	Pens, Offset Ball Point, (A. B. Dick)
6 1	set	Rapi-Graph Pens
1	each	Light Table (Sandmar)
1	each	Cabinet, Offset Drawer Storage (American)
	RUBBER STAMP MA	KING
•	each	Rubber Stamp Machine (Berkroy)
1	Fonts	Type, Hot Stamp (Short Fonts)
3	assortment	Metal Furniture
1	assorument	
	SILKSCREENIN	G
	·	A MARKET
	1	Frames, Silkscreen (Various Sizes)
6	each	Clamps, Silkscreen Frame
24	each	Squeegees, (Various Sizes)
6	each	Cutters, Stencil
12	each	Knife, Ink, 8 inches
1	each each	Rack, Drying (American)
1		
	PHOTOGRAPHY	Y .
1	each	Camera, 35mm (Argus)
1	each	Camera, 120 (Yashica Mat)
1 2	each	Tanks, Film Developing w/Plastic Aprons
	each	Tank, Film Developing w/Reel
1 3	each	Trays, Developing, 8 inches x 10 inches
3	each	Trays, Developing, 11 inches x 14 inches
3 8 2	each	Containers, Photo Chemical, One Gallon
2	each	Printers, Contact (Brumberg)
1	each	Enlarger (Omega D2)
i	each	Washer, Print (Arkay)
12	each	Aprons, Darkroom
6	each	Containers, Graduate
2	each	Paper Trimmer, 18 inches (National B/G)
1	each	Dryer, Print (Arkay)
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DRAFTING

10 20	each each	Drafting Tables, Two Student Unit (B/6 Drafting Stools (B/G) Drafting Table, for Instructor (B/G)
20 1	each	Drafting Table, for Instructor (B/G)

GENERAL EQUIPMENT

1 1 1 2 1	each each each each each each	Cabinet, Storage (Lymn) Benches, Wall Type - 24 inches x 108 inches Benches, Wall Type, - 24 inches x 144 inches Benches, Work - 60 inches x 34 inches x 34 inches Stock Table Bench, Work w/Steel Top
1 2 1	each each each each	Cabinet, File, 4 - Drawer Chairs, 17 inch Base Desk, Teachers Cabinet, Drawing, Complete w/Equipment

NOTE: The above equipment sizes may vary somewhat depending on the size of the facility,